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United States Department of Agriculture

Soil Conservation Service

Salt Lake City Utah



WATER SUPPLY OUTLOOK FOR UTAH

in Cooperation with Utah State Department of Natural Resources



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: LONE CONE, NEAR NORWOOD, COLORADO

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchroage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Inventigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

WATER SUPPLY OUTLOOK FOR UTAH

FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

issued by

NORMAN A. BERG
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTION, D.C.

Released by

GEORGE D. McMILLAN
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

DIVISION OF WATER DEPARTMENT OF NATURAL RESOURCES

DANIEL F. LAWRENCE
Division of Water Rights

Division of Water Resources

Report prepared by Snow Survey Staff

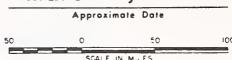
BOB L. WHALEY, Supervisor

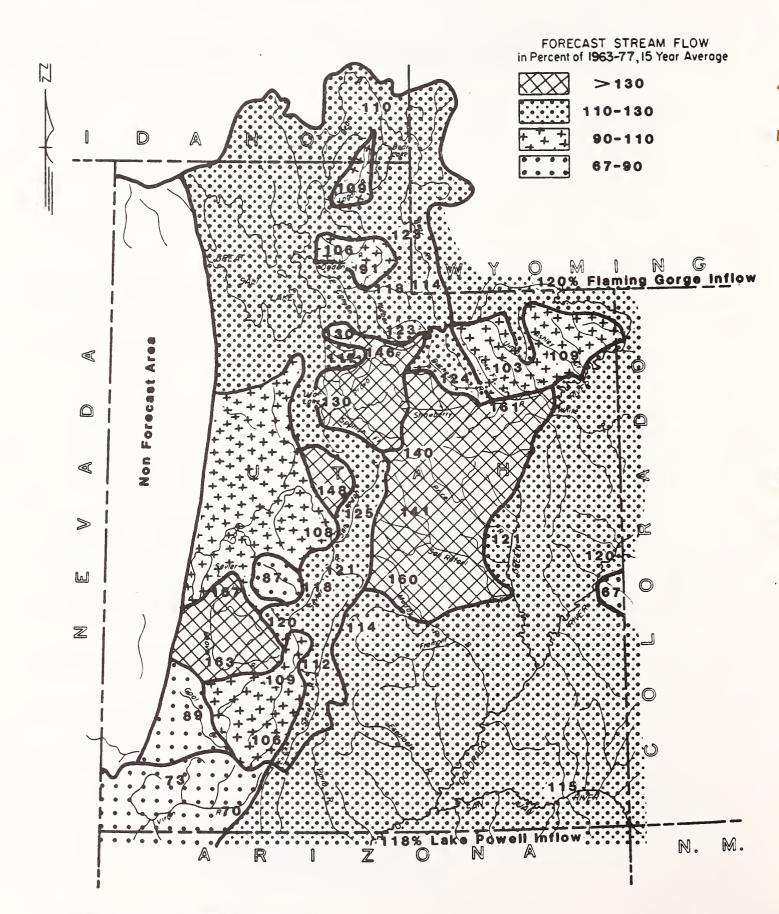
Soli Conservation Service 125 So. State, Fed. Bidg. P.O. Box 11350 Sait Lake City, Utah 84147

PROSPECTIVE WATER SUPPLIES

Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

March 1, 1982





as of March 1, 1982

SNOW COVER

Snow measurements completed the last of February show less than average increases for the month. Basin averages now range from 52% for the Enterprise-New Harmony area to 150% on the Muddy River in Emery County.

Bear River Basin is 123% of the March 1 average, Ogden and Weber Basins 119%, Provo-Utah Lake 129%, Jordan River-Salt Lake Front 124%, Duchesne River 123%, Price River 139%, San Rafael 137%, Fremont 129%, Beaver River 137%, South Fork Sevier 89%, Lower Sevier 120%, Virgin River 74%, LaSal Mountains 91% and Blue Mountains 80% of the March 1 average.

PRECIPITATION

Precipitation measured at mountain stations ranged from 41% of the February average at Lakefork Mountain in Uintah Basin to 135% at Hayden Fork on Bear River. Precipitation was generally near average on the Bear, Ogden, Weber and Provo Rivers and below average in the Uintah Basin and the southern half of the state with a few exceptions on Salina Creek and the Upper Fremont River.

SOIL MOISTURE

Watershed soils have near average moisture except in southern Utah where fall precipitation was below average.

RESERVOIR STORAGE

Storage in 24 of Utah's key irrigation reservoirs is now 106% of the March 1 average and 74% of useable capacity. Storage in these reservoirs averages 10% less than last year at this time.

Utah Lake is 0.5 feet below compromise and Great Salt Lake was 4,199.20 feet above sea level or 0.65 feet less than a year ago.

WATER SUPPLY OUTLOOK (continued)

STREAMFLOW FORECASTS

Streamflow forecasts now range from 67% of average for Mill Creek near Moab to 167% of average for the Inflow to Minersville Reservoir.

Forecasts generally dropped slightly due to below average increases to the snow pack during February.

Bear River is forecast 114% at Utah-Wyoming state line and 110% at Harer, Idaho. Logan River is forecast 109% of average, Pineview Inflow 106%, Lost Creek 91%, Weber near Oakley 123%, Chalk Creek 118%, and East Canyon 115% of the April-June average.

Provo River is forecast 146% at Hailstone, 138% at Deer Creek and 130% for the Inflow to Utah Lake.

Duchesne forecasts range from 103% on Lakefork to 161% for the Duchesne at Myton. Ashley Creek is forecast 109% and Uintah River 108%.

Inflow to Scoffield is forecast 140%, Huntington Creek 141%, Cottonwood Creek 156%, Ferron Creek 159%, and Muddy Creek 160% of the April-July average.

The Sevier is forecast 106% at Hatch, 109% at Kingston, 108% at Gunnison and Salina Creek 121%. Beaver River is forecast 163% at Beaver and North Creeks 143% of the April-July average. Coal Creek is forecast 89% of average and Virgin River 70% of average for the April-June period.

Peak flows are not expected to be a problem from snow melt runoff this year except possibly on the Beaver, San Rafael, and Muddy Rivers.

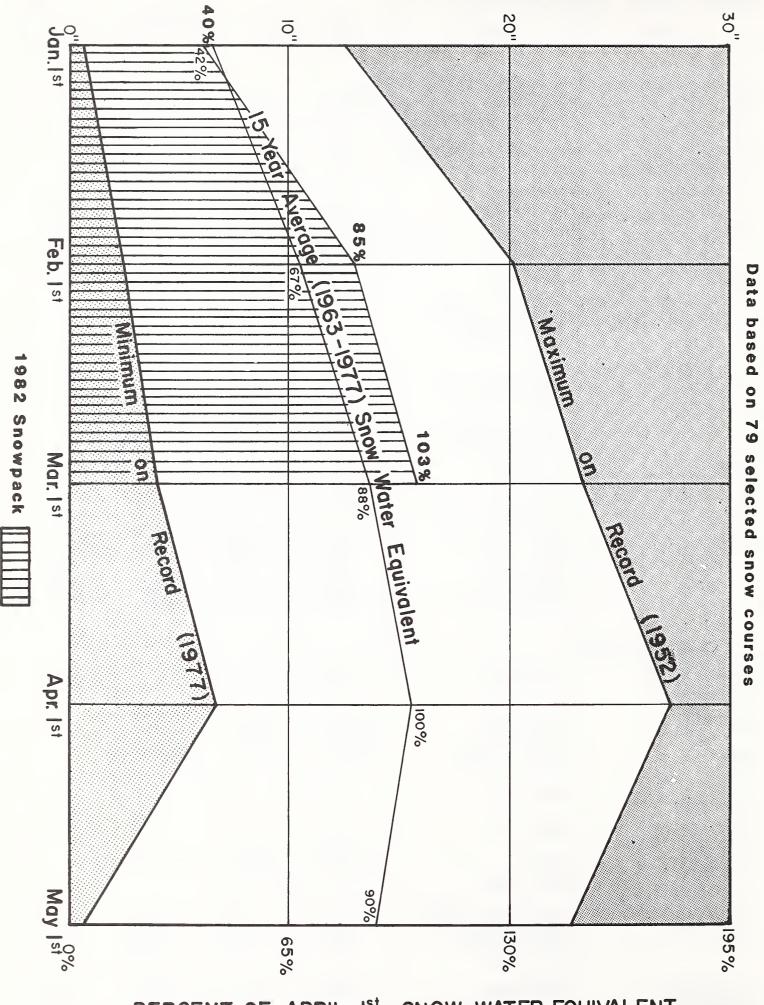
Water supplies are expected to be adequate for all users except in the southern part of the state where late season shortages are expected unless above average precipitation occurs in the next few months.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	There	Usable Storage	Average†
		Capacity	This Year	Last Year	Average
GREAT BASIN					
Bear River	Bear Lake Woodruff Narrows	1421.0 57.3	913.2 24.7	1052.9 20.2	1030.6 20.5
Beaver River	Minersville (RkyFd)	23.3	17.7	24.1	13.5
Little Bear	Hyrum Porcupine	15.3 11.3	10.4 2.6e	10.5	10.9
<u>Ogden</u>	Causey Pineview	6.9	3.6 73.5	4.4 62.0	2.0b 49.9
Provo	Deer Creek	149.7	107.0	115.2	106.6
Settlement Creek	Settlement Creek Vernon Creek	1.2	0.6	0.5 0.6	
Sevier River	Gunnison Otter Creek Piute Sevier Bridge Panguitch Lake	18.2 52.5 71.8 236.0 22.3	16.0 44.8 64.4 198.5 18.5	18.2 52.5 70.5 230.8	14.0 33.1 44.9 131.4
Spanish Fork	Strawberry	270.0	177.0	216.3	153.7
Utah Lake	Utah Lake	883.9	850.8	873.3	719.8
Weber	East Canyon Echo Lost Creek Rockport Willard Bay	48.1 73.9 20.0 60.9 193.3	34.2 53.3 13.0 27.5 141.2	37.8 58.0 16.5 44.3 175.6	28.3 51.7 13.2 ^b 32.8 135.1
COLORADO RIVER BAS	IN				
Ashley Creek	Steinaker	33.3	23.0	26.7	21.9
Colorado Green	Blue Mesa Lake Powell Flaming Gorge	829.5 25002.0 3749.0	267.6 1947.0 2663.9	446.0 21635.0 2970.0	
Lakefork	Moon Lake	35.8	18.6e	16.7	18.3
Price River	Scofield	65.8	35.7	50.4	35.8
San Juan	Navajo Ken's Lake	1696.0 2.7	1202.9	1253.0	
San Rafael	Huntington North Joe's Valley Mill Site	3.9 54.6 16.7	2.7 31.7 6.6	2.8 37.0 10.0 ^e	3.0b 36.9b
Strawberry Uintah	Starvation Bottle Hollow	165.3	144.4	150.7 11.3	130.0b 9.9b

USDA-SCS-PORTLAND, OREG. 196

INCHES OF SNOW WATER EQUIVALENT

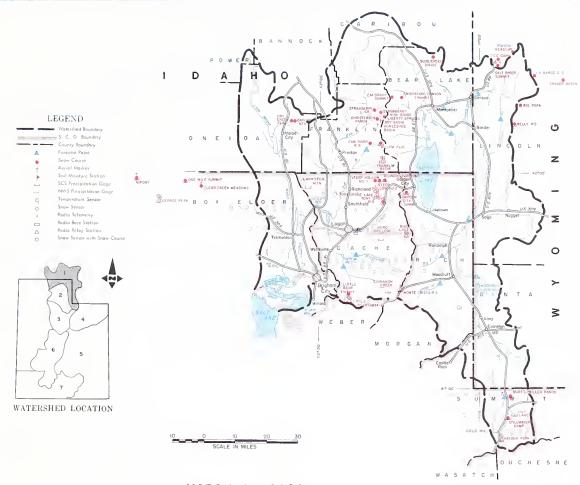


TAH'S WINTER SNOWPACK

PERCENT OF APRIL IST SNOW WATER EQUIVALENT

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1982

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER did not increase as much as expected and now ranges from 108% on Raft River to 127% on Logan River.

PRECIPITATION at mountain locations ranges from 68% of the February average at Bug Lake to 135% at Hayden Fork.

SOIL MOISTURE is good at higher elevations.

RESERVOIR STORAGE is still slightly below average except in Woodruff Narrows which is 120% of average. Bear Lake is 89% of average.

STREAMFLOW FORECASTS range from 94% of the April-July average on Woodruff Creek to 123% for the Bear near Woodruff. Bear at Stateline is forecast 114% and Logan River 109% of average. Peak flows are not expected to present a problem unless above normal precipitation and temperature occur early this spring.

All water users should have a near average supply this season.

BEAR RIVER BASIN IN UTAH

STREAMFLOW FOREESTS		YHIS YEA	Α		ECOND
	PONE	The Person named in column 2 is not	PORECASY	THOUSAND A	CHE FEET
BASM, STEIAH MOVE PROSCASY POMIT	Arro Fee	Protect of Anticipa	PER4CO	LECT YOU	Average *
BEAF RIVER Bear no ST-Wyo. State Line Bear no Woodruff Mocdruff Crk nr Woodruff, UT Big Creek nr Randolph, UT Bear nr Randolph Thomas Fork nr UT-WY State Ln Smith's Fork nr Border, NY Bear at Harer, Ideho 1/ Logan nr Logan 1/ Rlacksmith Fork nr Hyrum Little Bear nr Paradise Cub River nr Preston, ID			Apr-July Apr-July Apr-July Apr-July Apr-Sept Apr-Sept Apr-Sept Apr-July Apr-July Apr-July Apr-July Apr-June Apr-Sept	100 121 5.4 60 8.3 60 105 67 23 10.2	114 148 18.4b 5.4b 120 35 126 332 118 54 38 52
1/ Observed flow corrected for Z/ Provisional flows - Subject 5 - Average of all past record	to con	recti	an l	divers	ons

SMISEARY OF SHOW MEASUREMENTS ICOMPARISON WITH	PREVIOUS YEARSI		
RIVER BASIN and or SUB-MATERINED	Number of Courses	THIS YEAR AS	A PERCENT OF
	Averages	L age V cor	Awarage
BEAR RIVER	18	270	123
UPPER BEAR RIVER	4	238	115
LOWER BEAR RIVER	14	278	124
LOGAN RIVER	7	293	127
UPPER RAFT RIVER	2	170	108

RESERVORS STORAGE (Thousand Acro Foot)

BASIN OR STREAM	REMERVOIR	Capacia Capacia	This Year	LEGI YOU	G E Avacas V
BEAR RIVER	Bear Lake	1421.0	913.2	1052.9	1030.6
	Woodruff Narrows	57.3	24.7	20.2	20.5
LITTLE BEAR	Hyrum	15.3	10.4	10.5	10.9
	Porcupine	11.3	2.6e	3.8	3.6
+ - 1963-77 15 e - estimasted	year Average Period				

Kow		THIS YEAR		PAST 6	ECOAD	ZNOM		THE YEAR		PAST 0	8CDSD
DRAMAGE TASM end/or SHOW COURSE	Data	Snow Dape	Water Cuntent	Wester Cont	ant (undhes)	DRAMAGE BASIN ING W SHITE COURSE	Dans of service	Saure Dayon	Water Contant	Water Conto	gna (An ches)
	of States	(inclus)	(Inchos)	Lost Year	Average T	NAME	el Sarvoy	(Indige)	(Inches)	Law Your	Average 4
Burts-Miller Ranch Cub River R.S. Emigrant Summit Franklin Basin Hayden Fork Klondike Narrows	2/25 2/23 2/24 2/23 2/25 2/23	18 23 78 70 45 59	5.8 8.4 29.4 26.2 15.1 21.5	3.1 4.9 8.5 10.2 6.8 7.5	8.4 21.7 22.7 12.7a 17.3	Little Bear Lower Little Bear Upper Monte Cristo Salt River Summit Stillwater Camp Tony Grove R.S.	2/24 2/24 2/24 2/25 2/25 2/24	25 30 67 61 37 41	9.9 11.5 24.8 17.8 11.0 12.8	4.6 5.1 7.9 8.2 3.7 4.1	9.2 10.9 22.0 14.4 10.9

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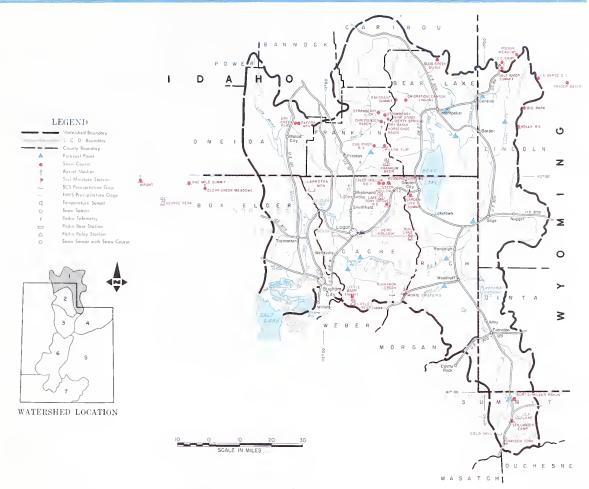


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BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1982

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STREAMFLOW FORECASTS range from 94% of the April-July average on Woodruff Creek to 123% for the Bear near Woodruff. Bear at Stateline is forecast 114% and Logan River 109% of average. Peak flows are not expected to present a problem unless above normal precipitation and temperature occur early this spring.

All water users should have a near average supply this season.

BEAR RIVER BASIN IN UTAH

HAMPLOW FOREZASYS		TOUS YEA	PAST RECORD THOUSAND ACRE FEET		
	FOR CAST				
BASIN, ETIMER WIN PORECAST POSIT	Winnersond Alexe Festi	Parettis of Audriges	PERIOD	Lost Year	Average
EAR RIVER	20.244 (63/62) 1.7 (6.346) 20				
Bear or UT-Wyo. State Line	130	114	Apr-July	100	114
Bear nr Woodruff	182	123	Apr-July	121	148
Woodruff Crk nr Woodruff, UT	17.3	94	Apr-July	5.4	18.4
Big Creek or Randolph, UT	5.8	107	Apr-July		5.4
Bear nr Randolph	239	116	Apr-July	60	120
Thomas Fork or UT-WY State Ln	44	124	Apr-Sept	8.3	35
Smith's Fork or Border, WY	137	114	Apr-Sept	60	120
Bear at Warer, Idaho 1/	366	110	Nor-Sept	105	332
Logan or Logan 1/	129	109	Apr-July	57	118
Blacksmith Fork or Hyrum	60	112	Apr-July	23	54
Little Bear or Paradise	42	111	Apr-June	10.2	38
Cub River or Preston, ID	56	112	Apr-Sept		52
/ Observed flow corrected for	change	in s	prage and	divers	ons
/ Provisional flows - Subject	to con	recti	o i n		
- Average of all past record	- less	than :	15 years		
	1		1		

SUMMERTY OF SHOW MEASUREMENTS ICOMPARISON INTO PREVIOUS YEARS THIS YEAR AS A PERCENT OF CAMERIC AND ADDRESS CONTY OF CAMERIC AND ADDRESS CONTY OF CAMERIC AND ADDRESS CONTY OF CAMERICAN ADDRESS CONTY OF CAM						
RIVER BASIN and or SUB-NATERINED	Courtes					
	Averages	Cost Year	Average			
BEAR RIVER	18	270	123			
UPPER BEAR RIVER	4	238	115			
LOWER BEAR RIVER	14	278	124			
LOGAN RIVER	7	293	127			
UPPER RAFT RIVER	2	170	108			
STATEMAN ASSAULT (St			*			

RESERVOIR STORAGE (Thousand Acre Foot)

		Montés	U	PABLE STORA	ĢE
BASIN OF STREAM	REMERVORA	Capacity	This Year	Lpst Year	Average 1
BEAR RIVER	Bear Lake Woodruff Narrows	1421.0 57.3	913.2 24.7	1052.9 20.2	1030.6 20.5
ITTLE BEAR	Hyrum Porcupine	15.3 11.3	10.4 2.6e	10.5 3.8	10.9
- 1963-77 15 - estimasted	year Average Period			The state of the s	

KOW	(THIS YEAR		PAST	ECOAD	SNOW		THUS YEAR		PAST N	8C045
DRANIAGE BASIN UNIFOR SHORT COURSE	Deso	Snow Depa	Waser Consons	Trace Content (unches)		DRAMAGE BASIN (NOT OF BROW COURSE	Dern of Europy	Sape Dipoli	Water Contest	Wasar Cons	mi (indico)
NAS	of Burvey	(Inches)	(lection)	Less Year	Average †	NAME .	of Europy	(lastes)	(Inches)	Less Year	Avorage †
Burts-Miller Ranch Cub River R.S. Emigrant Summit Franklin Basin Hayden Fork Klondike Marrows	2/25 2/23 2/24 2/23 2/25 2/23	18 23 78 70 45 59	5.8 8.4 29.4 26.2 15.1 21.5	3.1 4.9 8.5 10.2 6.8 7.5	8.4 21.7 22.7 12.7a 17.3	Little Bear Lower Little Bear Upper Monte Cristo Salt River Summit Stillwater Camp Tony Grove R.S.	2/24 2/24 2/24 2/25 2/25 2/25	25 30 67 61 37 41	9.9 11.5 24.8 17.8 11.0 12.8	4.6 5.1 7.9 8.2 3.7 4.1	9.2 10.9 22.0 14.4

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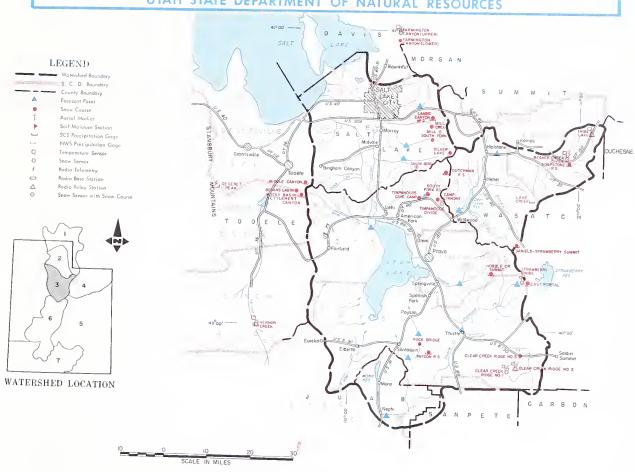


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UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1982

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER received less than average increase for February and now ranges from 84% of average for Tooele Valley to 129% on the Provo Utah Lake. The Salt Lake front is 124% of the March 1 average.

PRECIPITATION at mountain stations varied from 73% of the February average at Trial Lake to 104% at Clear Creek No. 2. The October-February total ranges from 120-139% of average

SOIL MOISTURE is near average in the top 1 to 2 feet.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 90% of the April-June average for Vernon Creek to 146% for Provo at Hailstone. Strawberry Reservoir Inflow is forecast 135% of average and Utah Lake Inflow 130% of the April-July average.

Water user's in this area are expected to have average or better water supplies this season.

STREAMFLOW FORECASTS		THIS YEAR	,	PAST I	TECDRO	SUMMARY OF SHOW MEASUREMENTS (COMPARISON WITH	PREVIOUS YEARS		
BASIN, STREAM and/or FORECAST POINT	FORE Thousand Acre Feet	Parcent of Average	FORECAST PERIOD	Last Year	CRE FEET	RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS	A PERCENT OF
PROVO RIVER AND UTAH LAKE						PROVO RIVER & UTAH LAKE	13	238	129
Provo nr Hailstone 1/	149	146	Apr-July		109				
Provo below Deer Creek Dam 1/	165	138	Apr-July		120	JORDON RIVER & SALT LAKE	2	229	124
American Fork nr American Fork		132	Apr-July		31				
Hobble Creek nr Springville	26	145	Apr-July		19.7b	TOOELE VALLEY	2	132	84
Strawberry Reservoir Inflow 1)		135	Apr-July						
Spanish Fork at Thistle	54	138	Apr-July		39b				
Payson Creek nr Payson	7.4	117	Apr-July		6.3				
Utah Lake Inflow	316	130	Apr-July		244				
JORDON RIVER & SALT LAKE									
Little Cottonwood Crk ar SLC	44	117	Apr-July		38				
Big Cottonwood nr SLC	47	124	Apr-July		38				
Parley's Creek nr SLC	20	130	Apr-July		15.4	1-Observed flow corrected for ch	ange in	storage and	diversions
Mill Creek nr SLC	8.1	129	Apr-July		6.3	2-Provisional flows - Subject to			1.00.3.003
Emigration Creek nr SLC	4.7	117	Apr-July		4.9	a-Partly estimated	1	1	
City Creek nr SLC	9.4	118	Apr-July		10.7	a rarety commused			
3.03 0.000 320	1	110	7451 -0 413		10.7		İ		
TOGELE VALLEY									
Vernon Creek nr Vernon	0.9	90	Mar-June	1.0	1.0				
Settlement Crk nr Tooele	2.2	96	Apr-July	1	2.3				
S. Willow Crk nr Grantsville	3.3	114	Apr-July				1	1	J

reservoir storage (Th	ousand Acro Foot)					PEAK FLOWS	,	
			USEABLE STORAGE			FDRECAST PDINT	PEAK FLOW (SEC	
BASIN OR STREAM	RESERVOIR	Usable Copatity	This Year	Last Year	Average†	FUNECAST FUNT	Forscest Renge	Average T
SPANISH FORK	Strawberry	270.0	177.0	216.3	153.7	Hobble Creek nr Springville Spanish Fork nr Thistle		
UTAH LAKE	Utah Lake Settlement Creek Vernon Creek	883.9 1.2 0.6	850.0 0.6 0.4	873.3 0.5 0.6e	719.8	Big Cottonwood nr Salt Lake City (a) - Maximum mean daily peak flow		
PROVO	Deer Creek	149.7	113.0	115.2	106.6			

WOM		THIS YEAR		PAST R	ECDRD	SHOW	/	THIS YEAR		PAST R	ECDRD
DRAINAGE BASIN and/or SNOW COURSE	Date	Snow Dapth	Water Content	Weter Conti	ent (inches)	DRAINAGE BASIN and/or SNOW COURSE	Dete	Snow Depth	Weter Contant	Water Conte	int (inches)
NAME	of Survey	(inches)	(Inches)	Lest Year	Average †	NAME	ol Survey	(inches)	(Inchss)	Lssi Yser	Average T
Camp Altamont Clear Creek #1 Clear Creek #2 Clear Creek #3 Daniels-Strawberry Summit Desert Peak Dutchman R.S. Hobble Creek Summit Lambs Canyon #2 Middle Canyon Mill Creek	2/27 2/27 2/27 2/27 2/27 2/27 2/27 2/27	41 53 47 28 41 64 53 46 48 26 57	17.1 19.1 16.1 10.1 14.8 24.6 22.0 16.8 17.8 9.3 19.3	9.8 7.0 6.5 2.8 5.3 15.1 10.6 5.2 8.1 7.5	13.4 15.6 11.8 6.9 12.3 14.4 12.3 12.1	Mill D South Fork Parleys Canyon Summit Payson R.S. Rocky Basin-Settlement Canyon Silver Lake Brighton Soapstone R.S. South Fork R.S. Timpanogos Divide Trial Lake Vernon Creek a - Partly estimated e - Estimated	2/26 2/25 2/25 2/22 3 3/1 2/26 2/25 2/27 2/27 2/27 2/25 2/28	55 54 52 56 70 41 21 60 77 28	21.5 17.8 19.2 20.3 26.2 13.9 9.4 23.0 28.1 8.6	8.8 7.6 6.6 12.9 11.1 6.0 3.6 12.8 12.1 6.1	17.1 16.1 16.5b 19.6 11.1 6.1 21.5 20.0 9.3a

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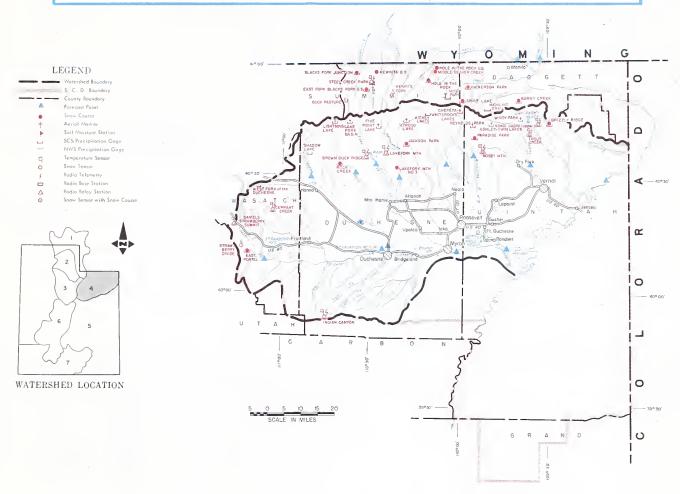


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UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1982

THE WATER SUPPLY OUTLOOK IS AVERAGE TO ABOVE AVERAGE

SNOW COVER ranges from 104% on Ashley Creek to 146% on Rock Creek. Lakefork-Yellowstone Creeks are 114% and Strawberry River 138% of the March 1 average. Most snow courses received below average February increases.

PRECIPITATION at mountain stations varied from 41% of the February average at Lakefork Mountain to 98% at Burnt Creek above Manila.

SOIL MOISTURE is better than average in the top one to two feet of soil.

RESERVOIR STORAGE is near average.

STREAMFLOW FORECASTS dropped 3 to 10% on the south slope of the Uintahs and now range from 102% for Yellowstone to 150% for the Duchesne at Randlette. Forecasts on the north slope raised with the Black's Fork 128% and Henry's Fork 129% of the April-September average. Peak flows are expected to be near average this season unless above normal precipitation and temperature occur during the snow melt period. Water supplies are expected to be adequate for all users this season.

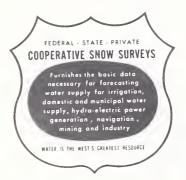
TREAMFLOW FORECASTS		THIS YEAR	,	PAST I	ECORO	SUMMARY OF SHOW MEASUREMENTS (COMPARISON WITH	PREVIOUS YEARS		
BASIN, STREAM and/or PORECAST POINT	PORE Thousand Acro Pose	Percent of Average	FORECAST PERIOD	THOUSAND A	CRE FEET Average	RIVER BASIN and or SUB-WATERSHED	Mumber of Courtees Awaraged	THIS YEAR AS	A PERCENT OF
DUCHESHE RIVER						DUCHESNE RIVER - TOTAL	11	227	123
Duchesne nr Tabiona 1/	136	127	Apr-July	73	107				
Duchesne at Duchesne 1/	234	121	, , ,		193	LAKEFORK-YELLOWSTONE CREEKS	4	188	114
Strawberry at Duchesne Rock Creek or Mtn. Home	76 120		Apr-July Apr-July	24 68	57 95	STRAWBERRY RIVER	4	244	138
Current Creek or Fruitland	27		Apr-July		20	JIMANDERINI NATER			
Lakefork below Moon Lake 1/	74		Apr-July		72	UINTAH - WHITEROCKS RIVERS	3	177	105
Yellowstone nr Altonah	68	102	Apr-July		67				101
Duchesne at Myton 1/	339	161	Apr-July		210	ASHLEY CREEK	4	171	104
Whiterocks or Whiterock	68		Apr-July		60	DI ACK IS ECON	4	238	139
Uintah nr Neola	96		Apr-July		89 266	BLACK'S FORK	1	230	139
Duchesne at Randlett 1/ West Fork Duchesne at Hanna	400 34		Apr-July Apr-July		26	ROCK CREEK	2	234	146
FLAMING GORGE TO DUCHESNE RIVER									
Henry's Fork at Linwood	67	129	Apr-Sept	17.9	52				
Black's Fork at Millburne	118	128	Apr-July		92	1/ Observed flow corrected for			diversion:
Flaming Gorge Inflow 1/	1550	120	Apr-July		1292	Z/ Provisional flows - Subject	to correc	tion	
Ashley Creek nr VernaT	56	109	Apr-July	35	51				
		1							

SEPENAGES 2162005 (100	RESIDE VOLG LAAL)			1		PLAN PLOWS		
	1		US	EABLE STORAC	E .		PEAK PLOW (SEC	NO PERT)
BASIN OR STREAM	RESERVOIA	Unable Causetty	This Year	Less Your	Average 🕈	FORECAST POINT	Perecest Range	Average †
ASHLEY CREEK	Steinaker	33.3	23.0	26.7	21.9	Strawberry at Duchesne Ashley Creek nr Vernal		
GREEN RIVER	Flaming Gorge	3749.0	2663.9	2970.0	0.00	a - Maximum mean daily peak flow		
LAKE FORK	Moon Lake	35.8	18.6 ^e	16.7	18.3			
STRAWBERRY	Starvation	165.3	144.4	150.7	130.0b			
UINTAH	Bottle Hollow	11.3	11.1	11.3	9. 9 b			٤

WONS		THIS YEAR		PAST	ECORD	SNOW		THIS YEAR		PAST A	ECOND
DRAINAGE BASIN and/or SNOW COURSE	Date			Weter Cent	ant (Inches)	DRAINAGE BASIN and/or SNOW COURSE	Dose	Snow Depth	Waser Centent	Peter Conto	nt (Inches)
NAME	el Survey	(Inches)	(Inches)	Lest Year	Average †	NAME	of Survey	(Inches)	(Inches)	Lest Year	Average +
Brown Duck Ridge	2/25	65	20.7	9.8	14.1a	Lakefork Mountain	2/25	36	9.6	5.4	9.0
Currant Creek	2/27		10.1	1.2	7.8ª		2/26	29	7.5	3.6	7.7
Daniels-Strawberry	2/27	41	14.8	5.3	12.3	Paradise Park	2/26	44	13.1	7.6	10.2
Hewinta G. S.	2/25	36	10.3	4.4	7.3	Rock Creek Ranch	2/25	22	7.4	2.2	
Hickerson Park	2/26		11.2	4.4	5.0b	Spirit Lake	2/26	42	11.6		9.7
	-,					Steel Creek Park	2/25	59	17.5	8.5	12.8
Jackson Park	2/25	44	11.3	6.8		Strawberry Divide	2/27		20.9	8.8	16.5
Kings Cabin Upper	2/25	32	8.6	5.4	8.1	Trout Creek	2/26	33	8.3	5.6	
						e - Estimated					

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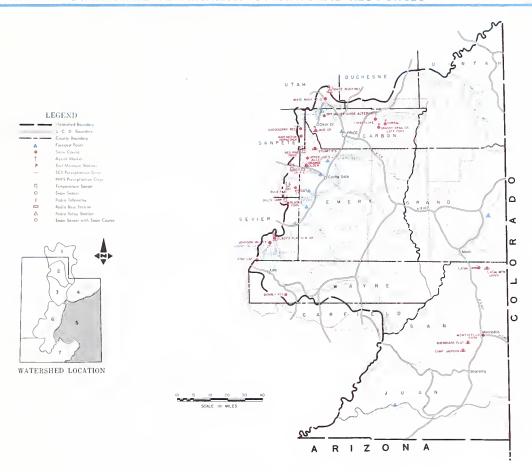


POSTAGE AND FEES PAID U. S. DEPARTMENT OF AGRICULTURE



CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1982

THE WATER SUPPLY OUTLOOK IS NEAR TO ABOVE AVERAGE

SNOW COVER generally received less than the average February increase and now ranges from 80% of average on Blue Mountains to 139% on Price River. Fremont River courses show a gain to 129% of the March 1 average.

PRECIPITATION at mountain stations ranged from 66% of average at Orange Olsen near Joes Valley to 129% at Fish Lake.

SOIL MOISTURE is near average.

RESERVOIR STORAGE is near average.

STREAMFLOW FORECASTS range from 67% of the April-July average for Mill Creek near Moab to 160% on Muddy Creek. Peak flows are forecast about 1 1/2 times average on Muddy and Ferron Creeks.

Water supplies are expected to be adequate for all users except in the Moab-Monticello-Blanding areas which are expected to be short of water in mid to late season.

REAMFLOW FORECASTS		THIS YEAR	`		RECORO	SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH			
	FORE		FOREÇAST	THOUSANO A		RIVER BASIN and or SUB-WATERSHED	Number of Courses	THIS YEAR AS	A PERCENT OF
BASIN, STREAM and/ or PORECAST POINT	Thousand Acra Feel	Percent of Average	PERIOD	Leet Year	Average †		Averaged	Lasi Yee	Average
RICE RIVER						PRICE RIVER	3.	595	139
Gooseberry Crk nr Scofield	12.8	128	Apr-July		10.1				
Scofield Reservoir Inflow	50		Apr-July		36	SAN RAFAEL RIVER	6	393	137
Price nr Heiner 1/	94	148	Apr-July	,	64				
						FREMONT RIVER	3	544	129
SAN RAFAEL RIVER	65				400	LACAL MOUNTATUE		110	0.1
Huntington Crk nr Huntington	65		Apr-July		49b	LASAL MOUNTAINS	2	112	91
Cottonwood Crk nr Orangeville			Apr-July	l .	44b	DI HE MOUNTATAIS	2	333	80
Ferron Creek nr Ferron	54	159	Apr-July	21	34	BLUE MOUNTAINS		333	00
IUDDY CREEK									
Muddy Creek nr Emery	27	160	Apr-July	9.1	16.9				
PPER COLORADO BASIN	-/	100	7.00.3	""					
Colorado nr Cisco, UT	3260	120	Apr-July		2716			į	
Green at Green River, UT	3600	121	Apr-July		2974				
Mill Creek nr Moab	3.4	67	Apr-July	2.1	5.1b				
Navajo Reservoir Inflow	700	115	Apr-July		608				
San Juan nr Bluff, UT	995	115	Apr-July		865				
REMONT RIVER						1-Observed flow corrected for o			diversions
Seven Mile Crk nr Fish Lake	7.3	114	Apr-July	4.8	6.4	2-Provisional flows - Subject 1	td correct	ion	

			US	EABLE STORAG	3 E		PEAK FLOW (SECO	NO FEET)
BASIN OR STREAM	RESERVOIR	Unable Capacity	This Year	Lest Year	Averagat	FORECAST POINT	Forecest Range	Average †
PRICE RIVER	Scofield	65.8	35.7	50.4	35.8	Ferron Creek near Ferron Muddy Creek near Emery	550-860 200-330	422 154
SAN RAFAEL	Huntington North Joe's Valley Mill Site	3.9 54.6 16.7	2.7 31.7 6.6	2.8 37.0 10.0e	3.0b 36.9b	(a) - Maximum mean daily peak flow		
SAN JUAN	Navajo Ken's Lake	1696.0	1202.9	1253.0				
	ear Average Period 1 past record - 1		15 years					

SNOW		THIS YEAR		PAST R	ECORO	SNOW		THIS YEAR		PAST R	ECORO
ORAINAGE BASIN and/or SNOW COURSE	Data	Snow Depth	Water Content	Wetsr Conte	int (inches)	DRAINAGE BASIN and/or SNOW COURSE	Date	Snow Depth	Water Content	Water Conti	int (inches)
NAME	of Survey	(inches)	(Inches)	Lest Year	Average †	NAME	of Survey	(inches)	(inches)	Lest Year	Average †
Buck Flat	2/25	59	20.1	5.1	13.3	Mammoth-Cottonwood R.S.	2/26	60	23.3	7.8	17.4
Buckboard Flat	2/25	24	6.7	2.3	8.8	Monticello City Park	2/25	0	0.0	0.0	
Camp Jackson	2/25	30	8.6	2.3	10.3	Mud Creek	2/26	48	16.4	3.6	11.4
Dills Camp	2/25	44	14.7	2.3	9.8a	Seeley Creek	2/26	43	15.7	3.2	13.4
Dry Valley Divide Alternate	2/27	36	12.5	0.5	!	White River #1	2/27	45	14.9	4.0	11.3
Huntington-Horseshoe	2/26	64	26.0	8.8	19.5a	White River #3	2/27	31	10.7	0.1	7.6
LaSal Mtn. Lower	2/26	20	5.0	5.2	7.1						
LaSal Mtn. Upper	2/26	40	12.1	10.0	11.6b						
					1						

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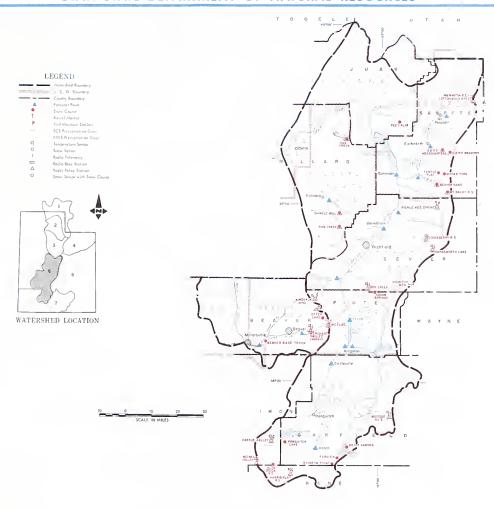


POSTAGE AND FEES PAID U.S. DEPARTMENT OF AGRICULTURE



SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1982

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER increased at better than a normal amount on Beaver River but less than normal on the Sevier River and now ranges from 89% of the March 1 average on the South Fork Sevier to 137% on Beaver River. The East Fork Sevier is 123% and the Lower Sevier 120% of average.

PRECIPITATION at mountain stations ranged from 67% of the February average at Duck Creek to 103% at G.B.R.C. Meadows.

SOIL MOISTURE is near average at higher elevations.

RESERVOIR STORAGE is above average. Sevier reservoirs are 149% of average and Minersville is 131% of average.

STREAMFLOW FORECASTS generally dropped after a drier than average February and now range from 87% on Chalk Creek to 167% of average for Minersville Inflow for the April-June period. Beaver near Beaver is forecast 163% of average and the peak flow at Beaver is expected to be about 180% of the 15 year average. Water supplies are expected to be near average on the Sevier and above average on the Beaver.

SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

STREAMFLOW FORECASTS		THIS YEAR	1	PAST I	TECORO	SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH	PREVIOUS YEARSI		
	FORE		FORECAST	THOUSAND A	CRE FEET	RIVER BASIN and or SUB-WATERSHED	Number of Courses	THIS YEAR AS	A PERCENT OF
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feo:	Percent of Average	PERIOD	Last Yest	Average †	HIVEN GROWN BIG O SOUTH TOTAL	Awaraged	Lost Year	Avreage
SEVIER RIVER						UPPER SEVIER RIVER			
Sevier at Hatch	43	106	Apr-July		41	East Fork Sevier	4	400	123
Sevier or Circleville	36	119	Apr-July		29	South Fork Sevier	6	279	89
Sevier nr Kingston	25	109	Apr-July		23				
Antimony Crk nr Antimony	9.0	123	Apr-July		6.9	LOWER SEVIER	12	245	120
East Fork Sevier nr Kingstonl/	17.0	112	Apr-July		15.2				
Sevier below Piute Dam	38	106	Apr-July		36	BEAVER RIVER	3	275	137
Clear Crk nr Sevier (abv Div)	21	120	Apr-July		17.8				
Sigurd to Gunnison	31	118	Apr-July					1	
Kingston to Vermillion Dam	60	107	Apr-June		56				
Vermillion Dam to Gunnison	41	118	Mar-June		35				
Salina Creek at Salina	14.0	121	Apr-June		11.1				
Sevier nr Gunnison	54	108	Apr-July		50				!
Chalk Creek nr Fillmore	14.2	87	Apr-July		16.3				
Chicken Creek nr Levan	4.6	148	Apr-July	1.4	3.1				
Oak Cr. nr Oak City	1.4	97	Apr-July	0.9	1.4				
Ephraim Creek nr Ephraim	18.1	125	Apr-July		8.6	1-Observed flow corrected for c			diversions
Pleasant Crk nr Mt. Pleasant	10.0	119	Apr-July			2-Provisional flows - Subject t	o correct	th on	
Salt Creek nr. Nephi	16.7	137	Apr-July		12.2				
Beaver nr Beaver	33	163	Apr-July	19.3					
North Creek (Combined)	19.€		Apr-July		13.7				
edinersyille Anflow to see	11.0	167	Apr-June		6.6	BEAN ELGINE	'		

RESERVOR STORAGE (TH	meand Acro Feet)		,			PEAR FLOWS			
			ŲS	EABLE STORAC	3 E	FORECAST POINT	PEAK FLOW (SECOND FEET)		
BASIN OR STREAM	RESERVOIR	Usable Copacity	This Year	Lest Year	Average†	FORECAST PORT	Forecast Range	Avarage T	
SEVIER RIVER	Gunnison Otter Creek Piute Sevier Bridge	18.2 52.5 71.8 236.0	16.0 44.8 64.4 198.5	18.2 52.5 70.5 230.8	14.0 33.1 44.9 131.4	Beaver River nr Beaver (a) - Maximum mean daily peak flow	250 - 515	211	
BEAVER RIVER	Minersville (Rky	23.3	17.7	24.1	13.5	(a) - Maximum mean darify pear from			
	all past record - T Year Average Period		15 years						

10WEstimated		THIS YEAR		PAST R	RECORD	SHOW		THIS YEAR		PAST RI	ECORD
DRAINAGE BASIN and/or SHOW COURSE	Dete	Snow Depth	Weter Contant	Water Conti	ent (inches)	DRAINAGE BASIN and/or SNOW COURSE	Oate	Snow Day th	Water Consent	Water Canter	nt (inchea)
NAME	of Survey	(Inches)	(Inches)	Lear Year	Average †	NAME	of Survey	(Inches)	(Inchea)	Last Year	Average
Big Flat Bryce Canyon Castle Valley Duck Creek Farnsworth Lake Gooseberry R.S.	2/3 3/3 2/23 2/24 2/25 2/25	28 5 7	18.2 4.9 11.5 8.0 18.1 11.5	7.3 0.0 4.6 1.6 8.6 4.3	12.8 3.9 10.6 10.7 15.1 10.1	Harris Flat Kimberly Mine Long Valley Junction Merchants Valley Upper Midway Valley Otter Lake Pickle Keg Springs Widtsoe-Escalante #3	2/24 2/23 2/24 2/23 2/24 2/23 2/25 2/24	20 45 10 37 41 54 47 37	4.8 14.1 2.8 9.6 12.2 16.4 16.8 10.1	0.0 7.5 0.0 4.1 5.7 4.7 6.5	6 12 4 9 16 9

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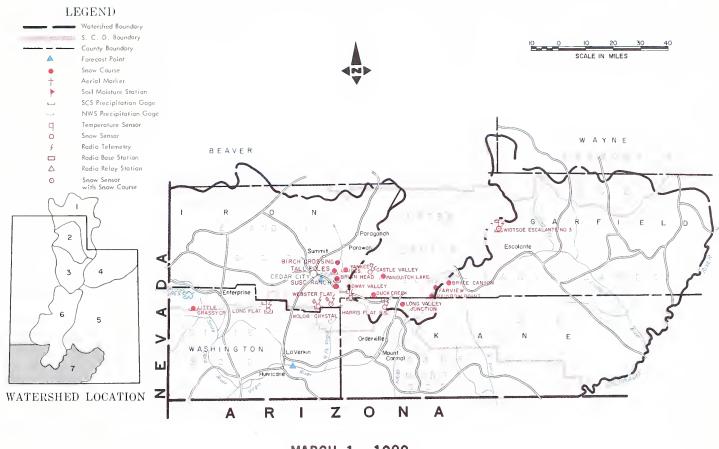


POSTAGE AND FEES PAID U. S. DEPARTMENT OF AGRICULTURE AGR-101



EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1982

THE WATER SUPPLY OUTLOOK IS BELOW AVERAGE

SNOW COVER did not increase at the normal rate during February and now ranges from 52% of the March 1 average in the Enterprise-New Harmony area to 95% for Parowan Creek drainage. Virgin River is 74% and Coal Creek 79% of average.

PRECIPITATION at mountain stations ranged from 61% of the February 1 average at Tall Poles to 71% at Webster Flat.

SOIL MOISTURE is below average.

RESERVOIR STORAGE in local reservoirs was not reported. Lake Powell is about 2 million acre feet below last year on March 1.

STREAMFLOW FORECASTS range from 70% of the April-June average on the Virgin to 89% on Coal Creek. Santa Clara is now forecast 73% of average and the Inflow to Lake Powell 118% of the April-July average.

Water supplies from direct streamflow diversions are expected to be short in the late season this year.

TREAMFLOW FORECASTS	PORE	THIS YEA	FURL CAST	YHOUSAND	CRE PEET	SUMMARY OF SHOW MEASUREMENTS (COMPARISON WIT	Number of Courses	THIS YEAR AS	A PERCENT OF
GASIN, STREAM mel/or PORECAST POINT	Visusand Aura Pass	Parcon of Average	PERIOD	Lest Year Average *		RIVER BASIN and at SUB-WATERSMED	Averaged	Cost Year	Amprigo
YIRGIN RIVER						COAL CREEK	3	274	107
Virgin nr Hurricane	35	70	Apr-June		48	VIRGIN RIVER	3	302	74
Santa Clara nr Pine Valley	3.0	73	Apr-June		4.1	PAROMAN CREEK	4	295	95
COAL LREEK						ENTERPRISE - NEW HARMONY	2		52
Coal Creek nr Cedar City	14.8	89	Apr-July		16.7				
JPPER COLORADO								-	
Lake Powell Inflow	8,200	118	Apr-July		6952				
2 - Provisional Flows - Subject	to cor	ection							

reservoir stocage (that	esand Acro Foot)				•	PEAK FLOWS		Addition to the contract of th
		Marke	Ų:	EABLE STORA	G E	POSECAST POWY	PEAK PLOW (SECO	NO PERT
BASIN OR STREAM	RESERVOIA	Useble Capacity	This Year	Last Year	Average T	PORECAL POINT	Fereccat Range	Average Y
COLORADO	Lake Powell Blue Mesa	25002.0 829.5		21635.0 446.5		Coal Creek nr Cedar City Virgin nr Virgin		
	l past record - le ar Average Period		5 years			(a) - Maximum mean daily peak flow		

SNOW		THIS YEAR		PAST R	RECORD	SHOW		THIS YEAR		PAST R	RECORD
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snew Desti (Inches)	Water Centent (Inches)	Water Cent	Aograga 🕈	DRAINAGE BASIN and/or SMOW COURSE NAME	Date of Survey	Snow Day (inches)	Viscan Content Unations	Woser Cente	Ancrage †
Birch Crossing Brian Head Harris Flat Kolob-Crystal Little Grassy Long Flat	2/25 2/25 2/24 2/24 2/24 2/24	18 52 20 40 4 14	5.6 16.2 4.8 11.6 1.1 3.7	1.0 6.0 0.0 4.3 0.0 0.0	6.0 ^b 16.3 ^b 6.9 17.3 ^a 3.6 5.6	Long Valley Junction SUSC Ranch Tall Poles Webster Flat Yankee Reservoir	2/24 2/25 2/25 2/25 2/24 2/23	10 19 35 36 26	2.8 6.3 10.5 11.6 6.9	0.0 1.0 4.0 4.3 2.3	4.0 7.5b 11.5b 13.9 7.4

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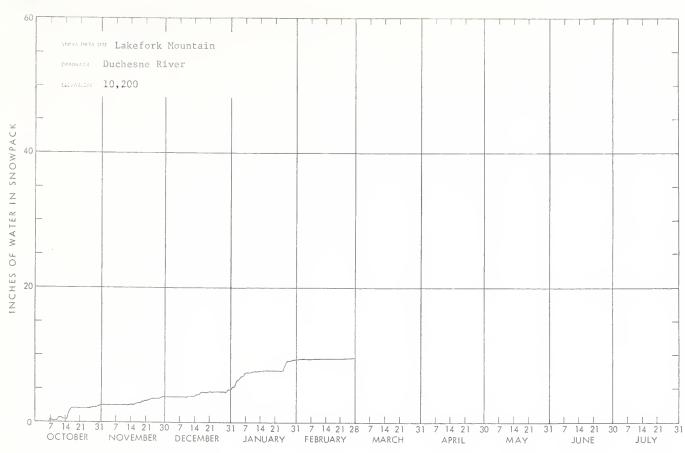


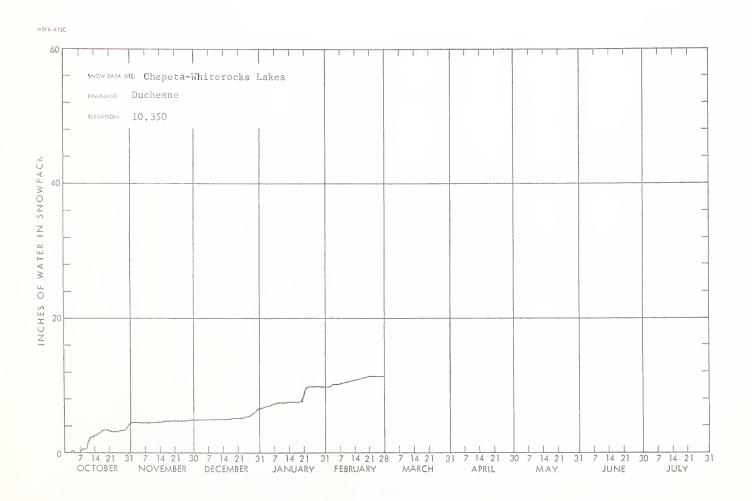
NOW		THIS YEAR		PAST R	ECORD	PRECIPI		(Inches)		PPROX. OCT	TODATE
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Weter Conti	Averege +	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
GREAT BASIN UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch CCC Camp Hayden Fork Monte Cristo R.S. Salt River Summit Stillwater Camp Lily Lake LOWER BEAR RIVER (Below Harer, Idaho)	2/25 2/25 2/25 2/25 2/24 2/25 2/25 2/25	18 44 45 67 61 37 51	5.8 11.8 15.1 24.8 17.8 11.0 15.6	3.1 6.2 6.8 7.9 8.2 3.7 8.0	11.1 12.7 ^a 22.0 14.4	2/25 2/25 2/24 2/25 2/25 2/25 2/25	1.20 3.88 4.98 2.56 1.28	2.87 ^a 4.15 2.91 1.64 ^b	10.70 23.81 26.59 20.62 15.59 17.82	7.25 ^b 12.86 ^a 21.27 14.26 10.09 ^b 12.11 ^b	148 185 125 145
Bug Lake Christensen Ranch Cliff Canyon Cub River R.S. Daniels Creek Dry Basin Dry Creek Flat Emigrant Summit Emigration Canyon Franklin Basin Garden City Summit Horseshoe Basin Klondike Narrows Liberty Spring Little Bear (lower) Little Bear (upper) Lower Elkhorn Oxford Mountain Slug Creek Divide Steep Hollow #1 Steep Hollow #2 Strawberry Creek Strawberry Mink Divide Tony Grove Lake Tony Grove R.S. Upper Elkhorn	2/24 2/23 2/23 2/23 2/23 2/23 2/24 2/24	69 27 29 23 82 25 78 35 70 55 72 59 124 25 30 49 34 52 108 74 30 61 107 41 60	22.9 9.5 10.0 8.4 7.1 30.7 9.3 29.4 11.4 26.2 18.2 27.5 21.5 46.9 9.9 11.5 18.0 11.6 17.3 41.1 26.7 10.9 21.0 40.5 12.8 20.3	7.1 5.0 3.0 4.9 3.7 11.6 0.8 8.5 5.0 10.2 5.9 10.9 7.5 13.7 4.6 5.1 5.5 4.3 8.0 14.6 10.0 4.2 7.5 11.6	15.6a 7.9 8.4 24.2b 7.4 21.7 9.7 22.7 15.3 22.0b 17.3 32.7 9.2 10.9 12.7b 9.4b 14.8 30.8 22.4 9.6 18.7 28.4a 10.9 16.4b	2/24 2/23 2/24 2/23 2/24 2/24 2/24	3.60 ^a 5.50 ^a 3.84 4.36 4.00 ^a 5.20 ^a 2.90	5.78 ^a 3.47 4.99 ^b 3.19 ^a 5.76 ^a 3.10 ^b	23.20a 31.15 34.60a 19.41a 24.57 25.60a	21.23 ^a 15.80 19.93 ^b 17.14 ^b	163 123 123 149
Willow Flat Worm Creek OGDEN RIVER	2/23 2/23	42 50	14.9 16.9	6.2 8.0	13.9	2/23	4.89	3.71	27.30	18.85	145
Beaver Creek-Skunk Creek Ben Lomond Peak Ben Lomond Trail Causey Dam Dry Bread Pond Sagebrush Flat	2/24 2/24 2/24 2/24 2/24 2/24	35 93 50 52 18	12.2 34.7 19.6 18.4 6.5	3.8 13.3 6.9 6.3 0.1	10.8 29.1 15.7b 16.0 5.0	2/24 2/24 2/24 2/24 2/24	8.90a 6.38 2.80 3.20a	4.47b 2.42b	44.20 ^a 23.66 15.11 20.80 ^a	34.23b 24.98b 11.91 16.96b 12.07	129 95 127 123
Beaver Creek R.S. Chalk Creek #1 Chalk Creek #2 Chalk Creek #3 Farmington Canyon (lower) Farmington G.S. Hardscrabble Horse Ridge Kilfoil Creek Lost Creek Reservoir Park City Summit Parley's Canyon Summit Pine Canyon Redden Mine (lower) Smith & Morehouse Sargeant Lake (A)	2/25 2/25 2/25 2/25 2/24 2/24 2/24 2/24	27 72 48 23 56 79 54 42 61 46 19 101 54 44 50 35	9.9 24.9 15.0 7.8 20.4 27.9 18.9 ^a 16.1 22.2 14.1 7.1 38.8 17.8 16.9 16.9	3.8 11.4 8.3 4.4 10.6 11.8 8.0 7.0 4.3 0.0 17.0 7.6 7.9 6.3	7.5 18.0 12.2 6.7 18.4b 25.3b 18.2b 11.6b 4.9b	2/25 2/25 2/25 2/24 2/24 2/24 2/24 2/24	3.50 ^a 1.80 ^a 1.42 4.98 6.50 ^a 5.38 4.60 1.52 3.32 2.49 2.11	2.24b 1.82b 4.04b 6.17a 4.21b	27.20ª	18.38 ^a 13.17 ^b 11.26 ^b 22.40 22.44 ^a 19.40 ^b 19.40 ^b 19.47	162 137 143 129 162 140 154 135

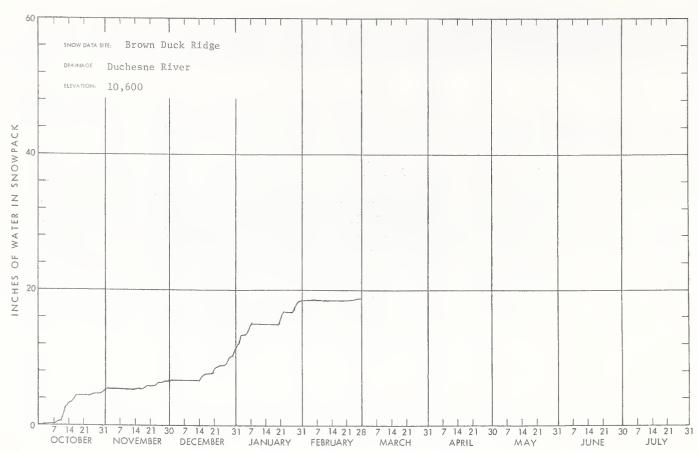
		THIS YEAR			ECORD	PRECIPI		(Inches)		PPROX. OCT	TO DATE
DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Weter Content (Inches)	Weter Cont	Averege †	Date of Reading	Month's Precipitetion	Average +	This Year	Average +	Percent of Average
GREAT BASIN CONT.											
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide Camp Altamont	2/25 2/27	38 41	13.3	5.3 9.8	10.9a 13.4	2/25	2.44a		23.72ª		
Clear Creek Ridge #1 Clear Creek Ridge #2 Clear Creek Ridge #3	2/27 2/27 2/27 2/27	53 47	19.1 16.1 10.1	7.0 6.5	15.6 11.8	2/27	2.59	2.48 ^b	16.16	13.35b	121
Dutchman R.S. Hobble Creek Summit Payson R.S.	2/27 2/27 2/22	28 53 46 52	22.0 16.8 19.2	2.8 10.6 5.2 6.6	6.9 14.4 12.3 16.5 ^b	2/27 2/27 2/22	3.95 2.19 ^a	4.39b	20.19a	17.75 ^b	139
Soapstone R.S. South Fork R.S. Timpanogos Cave Camp	2/25 2/27 2/27	41 21 6	13.9 9.4 2.4	6.0 3.6 0.1	11.1 6.1 2.4	2/25	2.43	3.01	20.02	15.05	133
Timpanogos Divide Trial Lake	2/27 2/25	60 77	23.0 28.1	12.8 12.1	21.5	2/27 2/25	3.95 2.81	4.30 3.87	26.15 30.40a	21.73	120 139
ORDAN RIVER & GREAT SALT LAKE											
Bevan's Cabin Lamb's Canyon #2 Middle Canyon Mill Creek	2/25 3/1 2/25	48 26 57	17.8 9.3 19.3	8.1 7.5 8.4	12.1	2/25 3/1	1.96 2.45	2.79	24.92ª 21.40	13.02	164
Mill D South Fork Mt. Dell Dam Rock Basin-Settlement Silver Lake (Brighton)	2/26 3/1 2/26	55 56 70	20.3 26.2	8.8 12.9 11.1	17.1	3/1	2.78	1.77	26.44a	11.14	
Snow Bird (Gad Valley) Vernon Creek Desert Peak	2/26 2/28 3/1	105 28 64	35.0 8.6 24.6	11.2	9.3a	2/28 3/1	1.70 9.25		17.27 32.04	12.76 ^b	135
COLORADO RIVER DRAINAGE					·						
JPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A) Black's Fork G.SEast Fork Black's Fork Junction Buck Pasture (A)	2/25 2/25	36 33	11.0 9.7	11.9 3.9 3.6 10.6	7.4 7.4	2/25 2/25	1.60 1.20		13.95 13.62	9.51 9.37	147 1 45
Burnt Creek Grizzly Ridge Hewinta G.S. Hickerson Park King's Cabin (upper)	2/25 2/25 2/25 2/26 2/26	15 22 36 24 32	3.2 6.0 10.3 6.2 8.6	3.3 4.0 4.4 4.4 5.4	4.2b 8.0b 7.3 5.0b 8.1	2/25 2/25 2/25 2/26 2/26	1.20 0.80 0.87 0.84 0.83	1.23 ^b 1.80 ^b	9.40 12.40 13.73 7.95 11.60	7.32 ^b 10.55 10.06 7.65 ^b 9.24	128 118 136 104
Reynolds Park (A) Spirit Lake Steel Creek Park Trout Creek Henrys Fork (A)	2/26 2/25 2/26	42 59 33	11.6 17.5 8.3	13.5 8.6 8.5 5.6 8.9	9.7 12.8 ^b	2/26 2/25 2/26	1.43 2.50 ^a 0.75		14.73 18.00a 8.92	11.04	133
DUCHESNE RIVER											
Atwood Lake (A) Brown Duck Ridge Chepeta Currant Creek Daniels-Strawberry Summit East Portal Five Points Lake (A)	2/25 2/26 2/27 2/27 2/27	65 45 30 41 40	20.7 11.8 10.1 14.8 15.0	7.8 9.8 8.1 1.2 5.3 6.0	14.1 ^a 7.8 ^a 12.3 9.6	2/25 2/26 2/27 2/27 2/27	1.88 ^a 0.38 ^a 1.70 1.92 1.82	3.10 3.08	22.10 ^a 14.65 ^a 18.31 22.65 22.25	15.13 14.22	150 156
Indian Canyon Jackson Park	2/26 2/25	44 44	13.1 11.3	4.9 6.8	10.1 12.2ª	2/26 2/25	1.93 0.63	2.18	15.97 24.33	10.87	
Lakefork Basin (A) Lakefork Mountain #1 Lakefork Mountain #3	2/25 2/25	36 19	9.6 4.6	10.8 5.4 2.6	9.0 5.3	2/25	0.77	1.86	14.08	10.54	134
Lightning Lake (A) Mosby Mountain	2/26 2/26 2/25	29 44 22	7.5 13.1 7.4	14.4 3.6 7.6 2.2	7.7 10.2 5.2a	2/26 2/26 2/25	1.00 ^a 0.96 0.60	1.66 ^b 1.91 ^b	12.40 ^a 15.55 13.03	10.53 11.27	138

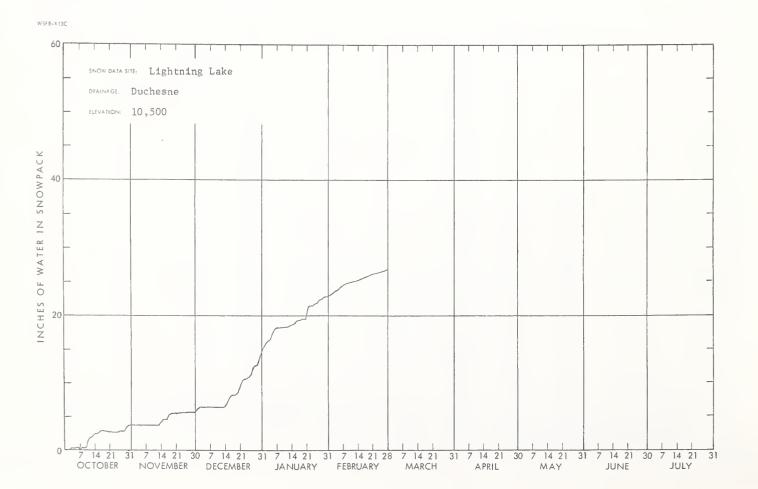
low		THIS YEAR		PAST R		CURI	RENT INFORMA	TION	FROM AP	PROX OCT I	
DRAINAGE BASIN and/or SNOW COURSE	Oata of Survey	Snow Orpth (inches)	Water Content (Inchas)	Water Conte	Average +	Date of Reading	Month's Precipitation	Avarage +	This Year	Average +	Percent of Averag
PRICE RIVER											
Dry Valley Divide Alternate Mud Creek White River #1 White River #3	2/27 2/26 2/27 2/27	36 48 45 31	12.5 16.4 14.9 10.7	0.5 3.6 4.0 0.1	11.4 11.3 7.6	2/26 2/27	1.71 1.73	2.49	17.90 ^a 17.39	11.69 11.08	153 160
SAN RAFAEL RIVER											
Buck Flat Huntington-Horseshoe Orange Olsen Red Pine Ridge Seeley Creek R.S. Stuart R.S. Upper Joe's Valley Wrigley Creek	2/25 2/26 2/26 2/26 2/26 2/26 2/26 2/25	9 64 22 56 43 33 40 40	20.1 26.0 6.6 19.6 15.7 11.2 12.7 12.8	5.1 8.8 0.0 4.3 3.2 0.0 1.8 4.0	13.3 19.5a 14.3 13.4 8.8 8.9	2/25 2/26 2/26 2/26 2/26 2/26	2.60 0.77 3.34 1.31 ^a 1.36	3.21 1.17 3.48	21.95 10.38 24.76 16.60 ^a 13.18	14.50 6.39 16.25	151 162 152
NUDDY RIVER											
Black's Fork Dill's Camp	2/25 2/25	46 44	16.1 14.7	3.6 2.3	10.8a 9.8a	2/25	2.58		20.87		
FREMONT RIVER											
Black's Flat-U.M. Creek Fish Lake Johnson Valley	2/25 2/25 2/25	37 28 27	11.4 8.4 7.4	2.5 1.6 0.9	8.9 6.6 5.6	2/25 2/25	2.50 ^a 1.48	1.15	13.60 ^a 10.50 ^a	9.64 ^b 7.50	141 140
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat Camp Jackson LaSal Mountain (lower)	2/25 2/25 2/26	24 30 20	6.7 8.6 5.0	2.3 2.3 5.2	8.8 10.3 7.1	2/25 2/25	1.60 1.85		13.55 12.05	15.18 14.27	89 84
LaSal Mountain (upper) Monticello City Park	2/26 2/25	40	12.1	10.0	11.6 ^b	2/26	1.70		16.03	11.04	
JPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek Bryce Canyon	2/25 3/3	42 14	13.0	4.1	10.7	2/25	2.13		15.45	11.10	139
Castle Valley Duck Creek R.S Farview	2/23 2/24	33 28	11.5	4.6 1.6 1.3	10.6	2/23 2/24	1.63 1.57	2.35 ^b	12.31 15.75	11.12 13.25	111 119
Harris Flat Kimberly Mine Midway Valley Panguitch Lake	2/24 2/23 2/24 2/23	20 45 41 15	4.8 14.1 12.2 3.6	0.0 7.5 5.7 0.0	6.9 12.3 16.6 3.8	2/24 2/23 2/24 2/23	1.10 ^a 2.86 2.60 ^a 1.24	3.18b	11.50 ^a 19.31 16.4 ^a 8.99	14.38 6.51 ^b	134 138
Rainbow Point Squaw Springs	2/25	27	7.6	1.6	6.1						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams Farnsworth Lake G.B.R.C. Headquarters	2/26 2/25 2/26	31 57 40	11.0 18.1 14.1	4.0 8.6 6.6	9.6 ^b 15.1 13.0	2/26 2/25 2/26	2.12 3.65 2.47	3.59 2.69	16.82 19.66 19.88	10.66 15.23 14.21	158 129 140
G.B.R.C. Majors G.B.R.C. Meadows	2/26	68	24.3	9.4	18.6	2/26	3.68	1.30	24.73	6.95	141
G.B.R.C. Oaks Gooseberry R.S. Mammoth-Cottonwood Creek Mt. Baldy R.S.	2/25 2/26 2/26	33 60 72	11.5 23.3 25.8	4.3 7.8 8.7	10.1 17.4 18.6 ^b	2/25 2/26	2.48 2.25 ^a	1.88 2.38 ^b	14.98 28.40a	9.70 9.87b	152
Oak Creek Pickle Keg Springs Pine Creek	2/22 2/25 2/23	28 47 40	8.5 16.8 13.6	4.7 6.5 5.7	10.0a 13.2a 13.1	2/22 2/25 2/23	1.13 3.90 ^a 3.20		17.14 20.40 ^a 22.58	18.53	122
Ree's Flat Shingle Mill	2/22 2/25	43 24	14.8 6.1	6.5 3.9	10.3 ^b 7.6	2/22 2/25 2/26	2.43 1.96 2.33		18.27	12.58 15.36	129 154

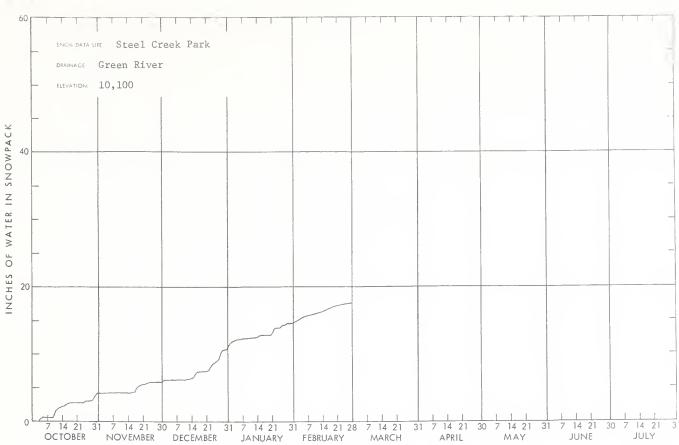
NOW DRAWAGE BASIN and (as Show COURSE	/	THIS YEAR		PAST R		CUA	RENT INFORMA	(Inches)		PROX OCT !	
DRAINAGE BASIN and/or SNOW COURSE NAME	Oete of Survey	Snow Oapth (Inches)	Weter Content (inches)	Lest Year	Average +	Dete of Reading	Month's Precipitation	Average +	This Year	Average †	Percent of Average
BEAVER RIVER											
Beaver Canyon Power House Beaver Race Track Big Flat Merchant's Valley (upper) Otter Lake	2/26 2/23 2/23 2/23	0 56 37 54	0.0 18.2 9.6 16.4	0.0 7.3 4.1 4.7	12.8 9.6 ^b 9.9	2/23 2/23	2.10 1.82	2.60 2.11 ^b	19.00 ^a 13.56	12.53 11.29	130 120
PAROWAN CREEK											
Birch Crossing Brian Head Tall Poles Yankee Reservoir	2/25 2/23 2/25 2/23	18 52 35 26	5.6 16.2 10.5 6.9	1.0 6.0 4.0 2.3	6.0b 16.3b 11.5b 7.4	2/25 2/23	1.45 2.34	2.39b	12.50 1.50 13.65	11.87 ^b 9.40 ^b	105 145
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek Long Flat	2/24 2/24	4 14	1.1 3.7	0.0	3.6 5.6	2/24 2/24	0.80 1.89		7.32 7.59a	12.33 ^b 9.23	59 82
COAL CREEK											
Cedar City Golf Course SUSC Ranch	2/25 2/25	0 19	0.0	0.5 1.0	7.56						
ESCALANTE RIVER											
Widtsoe-Escalante #3	2/24	37	10.1	4.8	8.3	2/24	1.46	2.08	12.21	9.67	126
VIRGIN RIVER											
Kolob-Crystal	2/24	40	11.6	4.3	17.3a	2/24	2.60a		15.10ª		
Long Valley Junction Webster Flat	2/24 2/24	10 36	2.8 11.6	0.0 4.3	4.0 13.9	2/24	2.50a	3.53	16.38ª	15.15	108
+ - 1963-77 15 year average p	eriod										

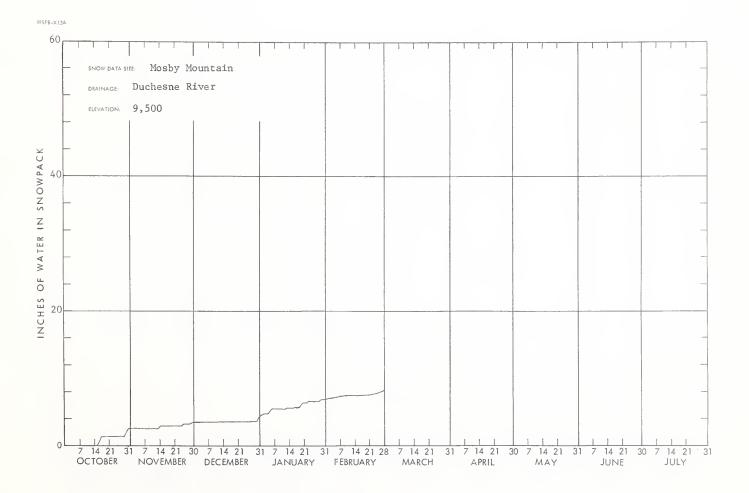


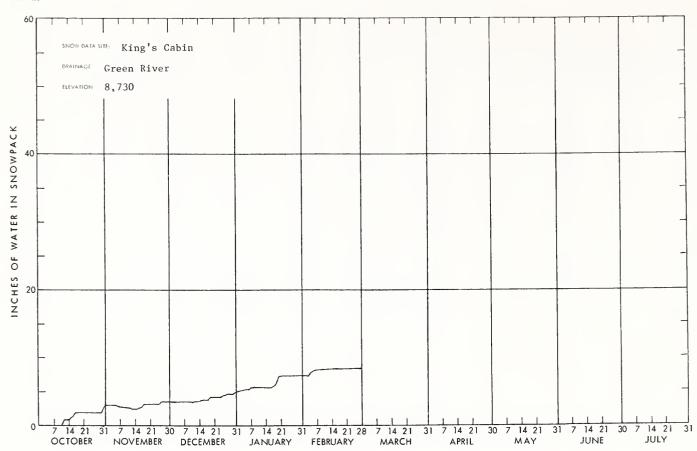


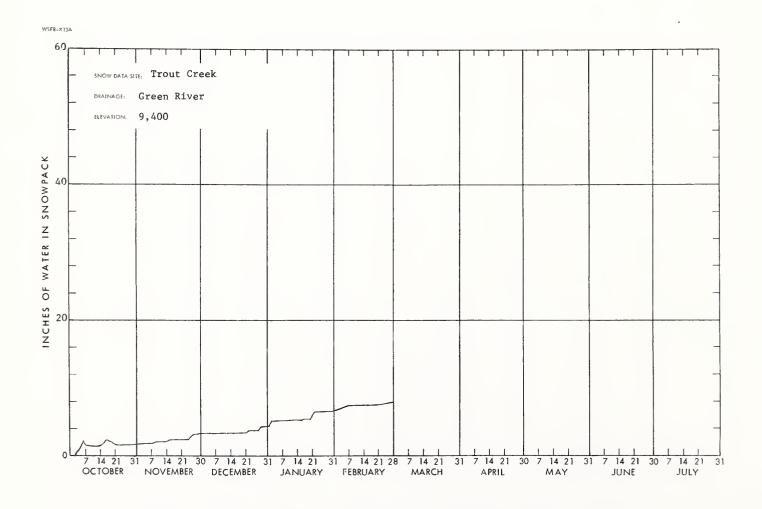


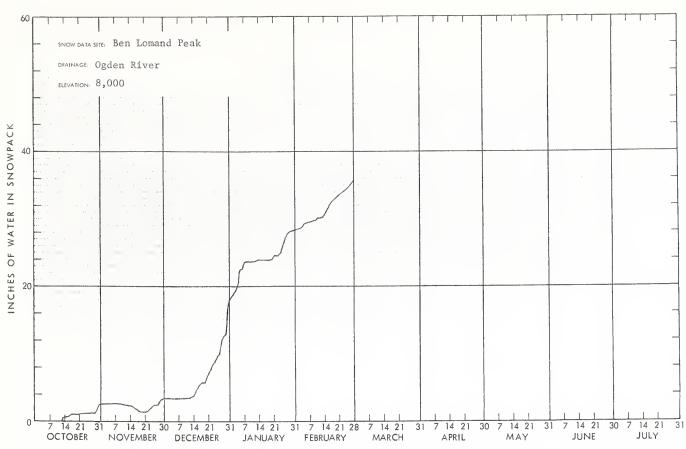


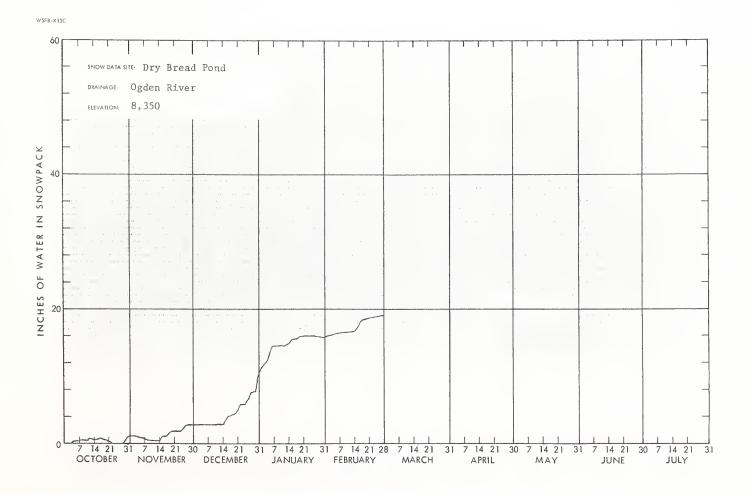


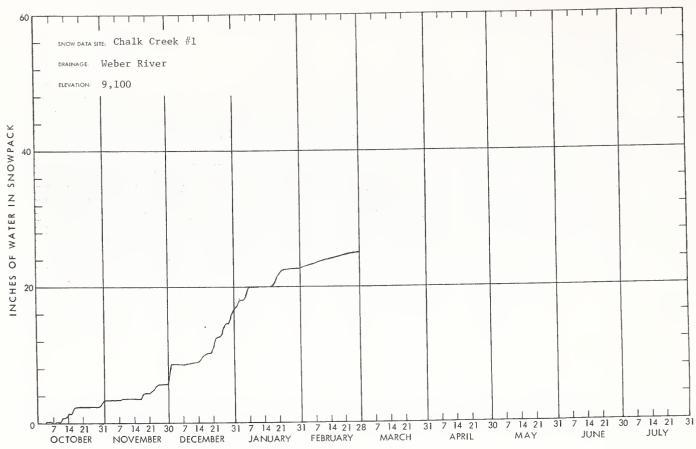


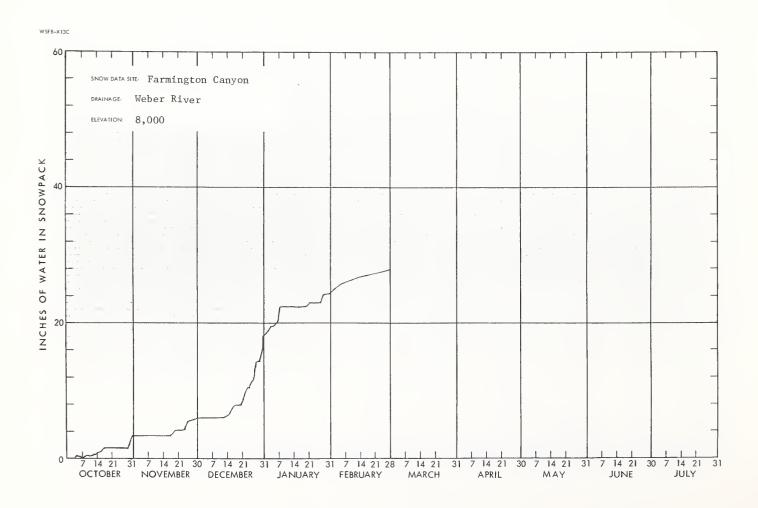


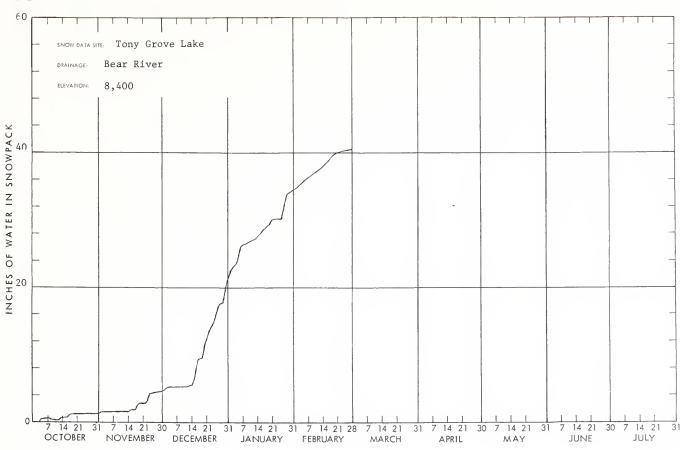


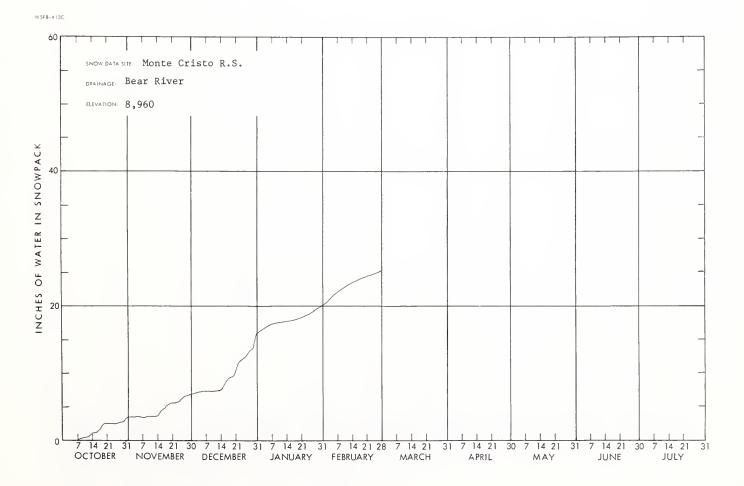


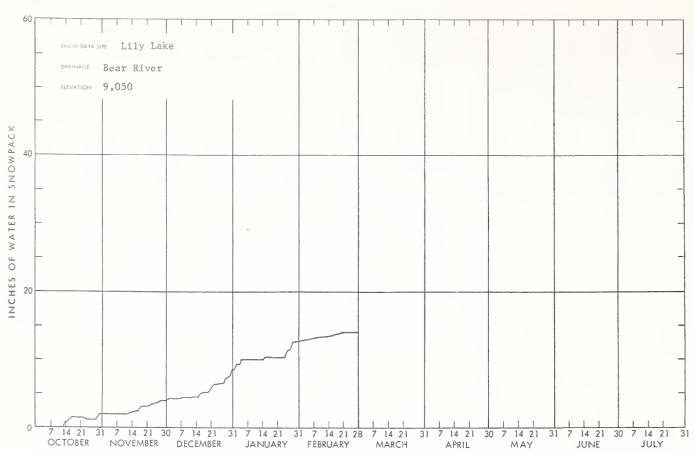


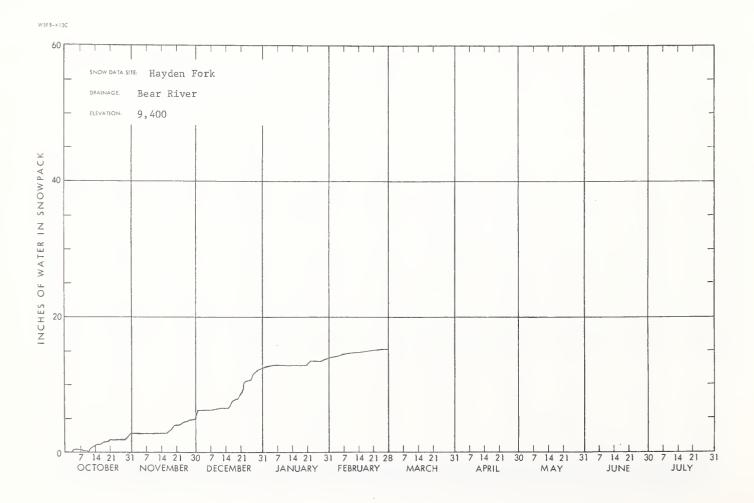


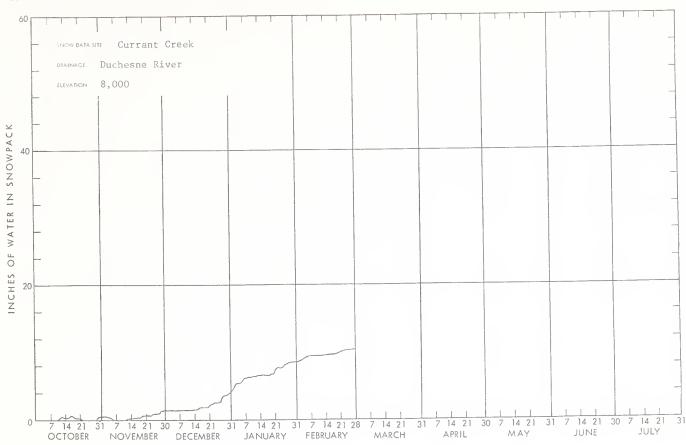


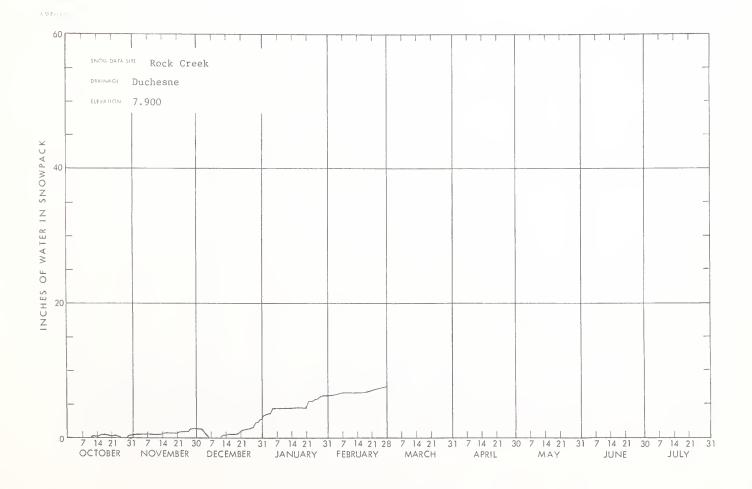




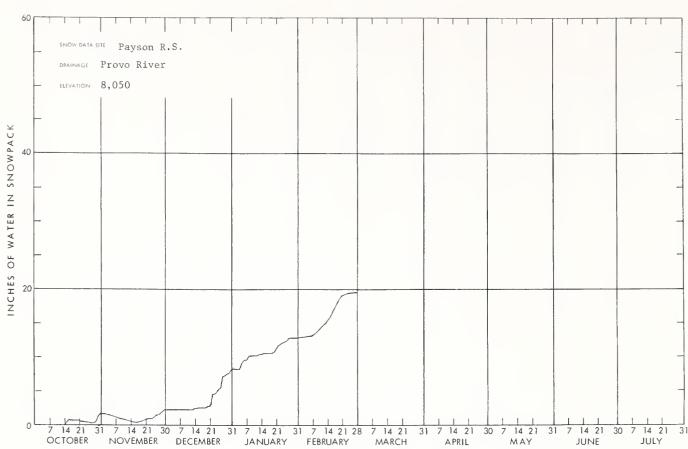


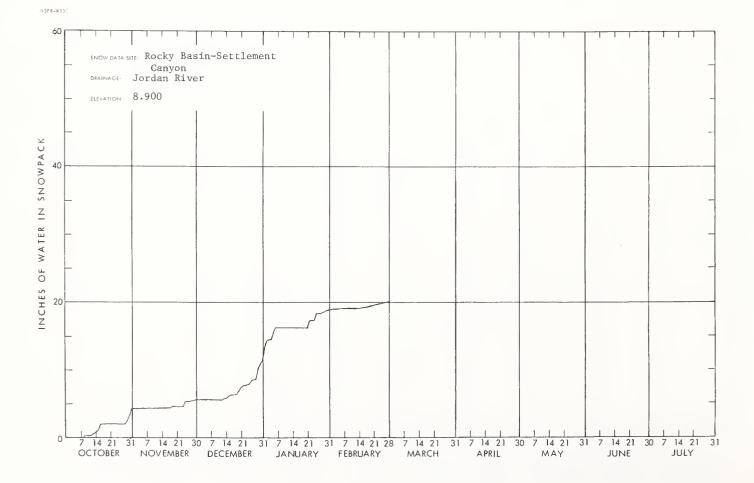


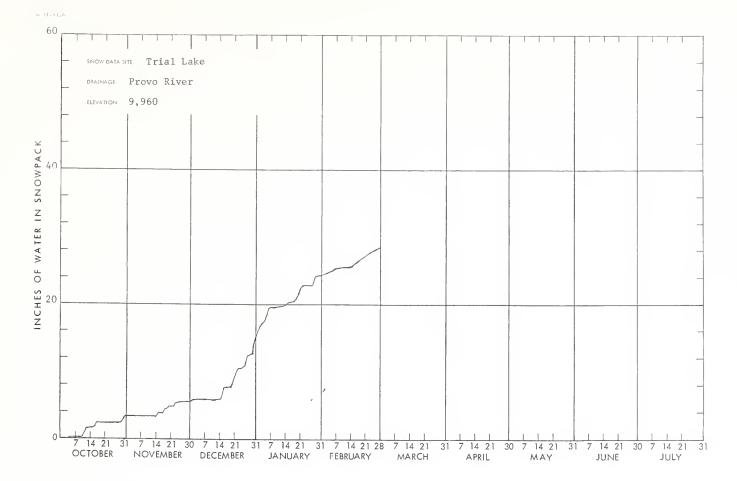


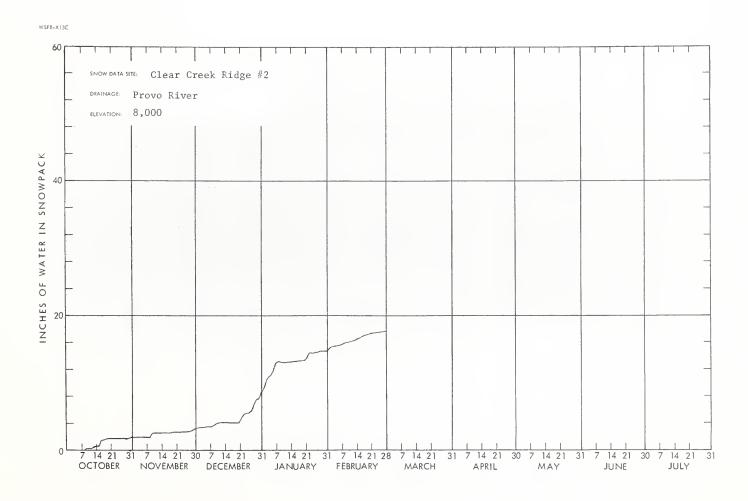




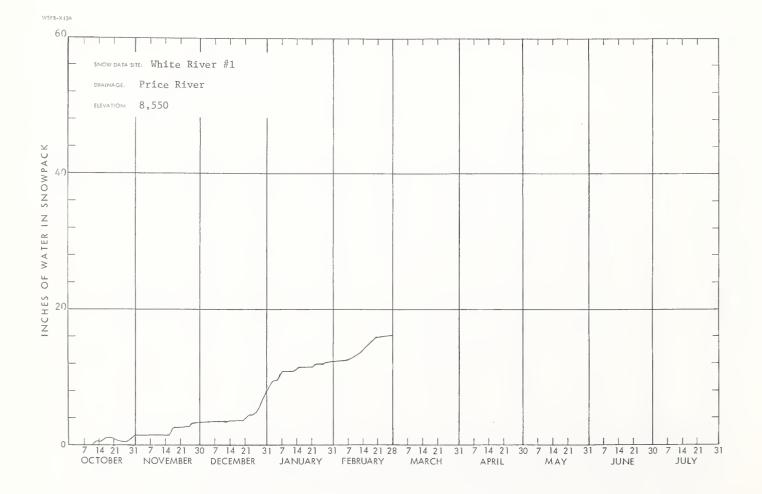




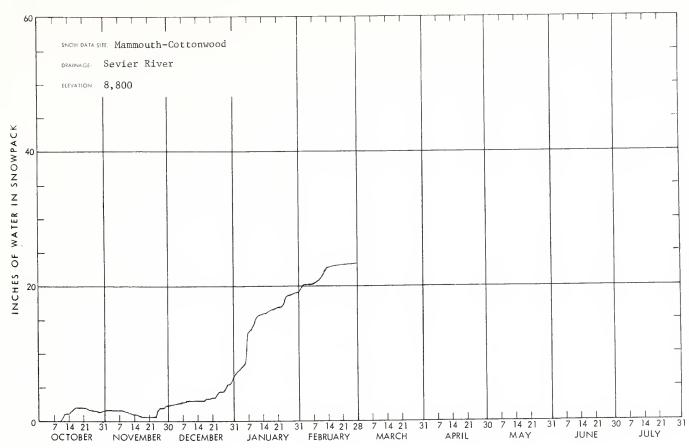




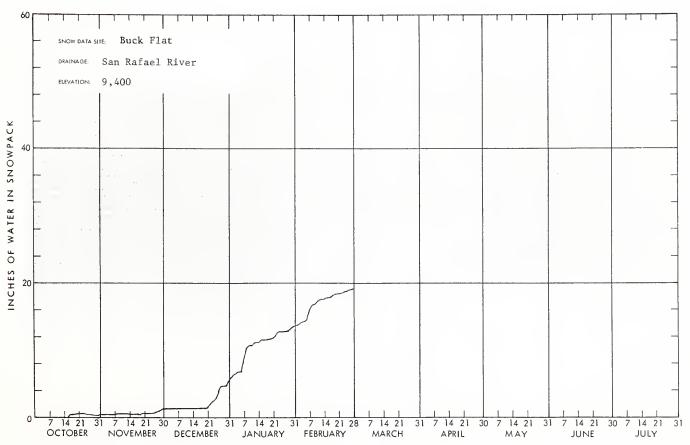
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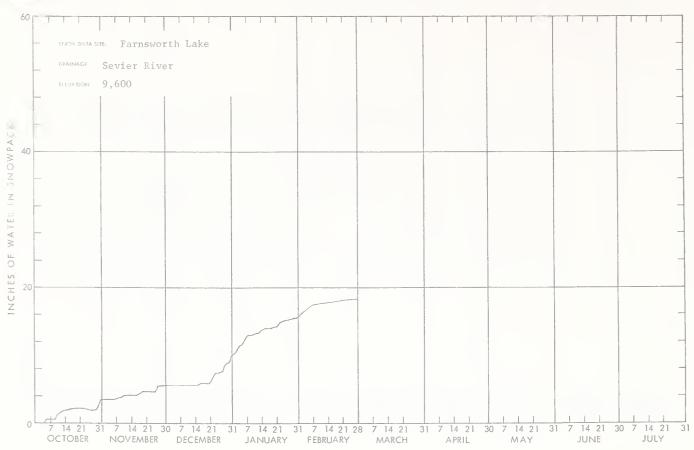


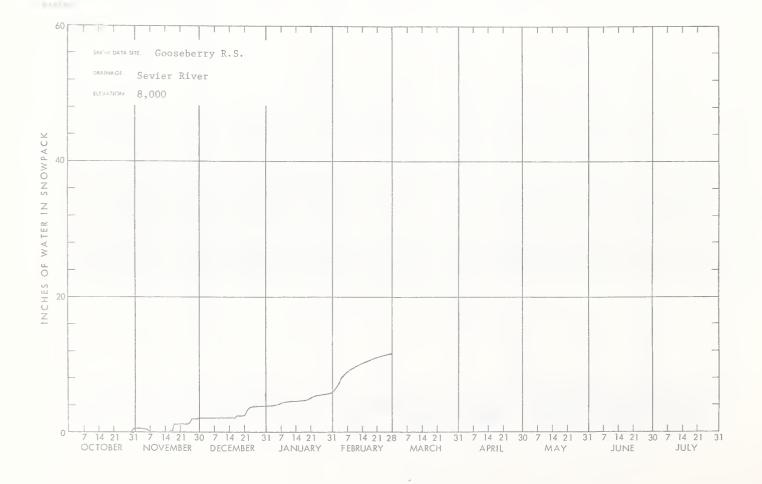




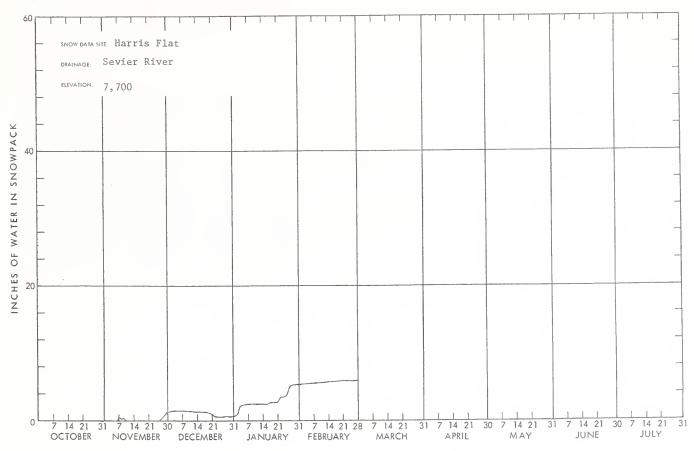


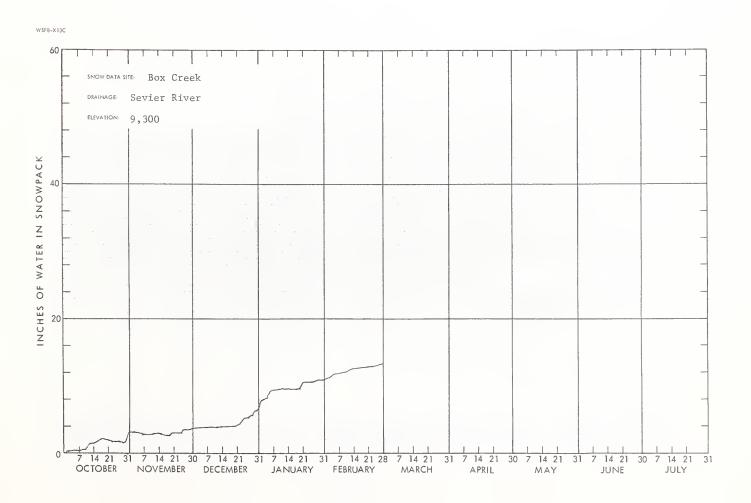


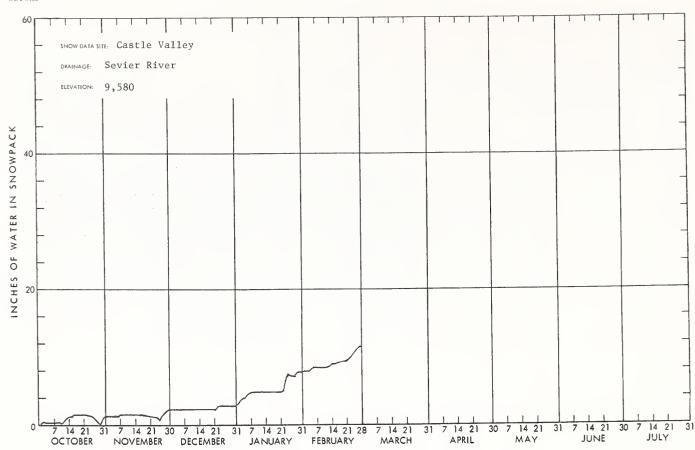


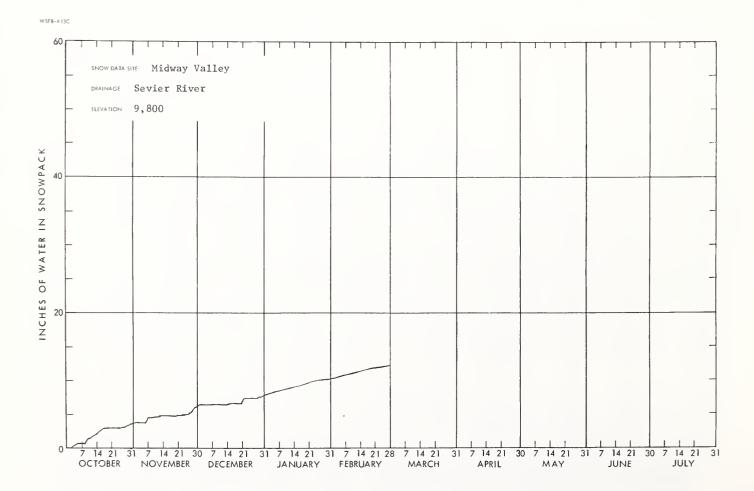


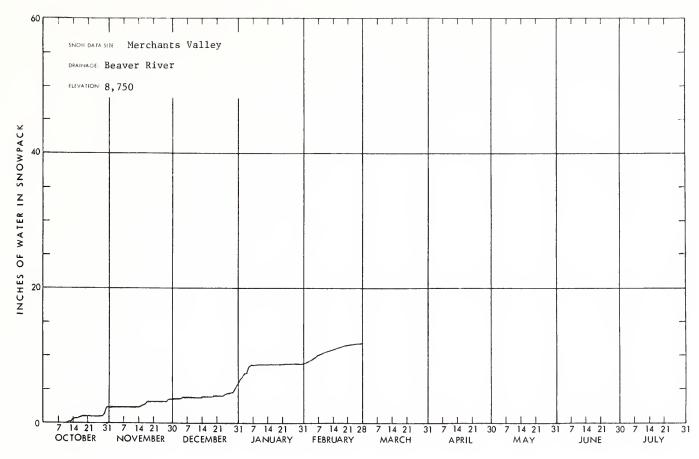


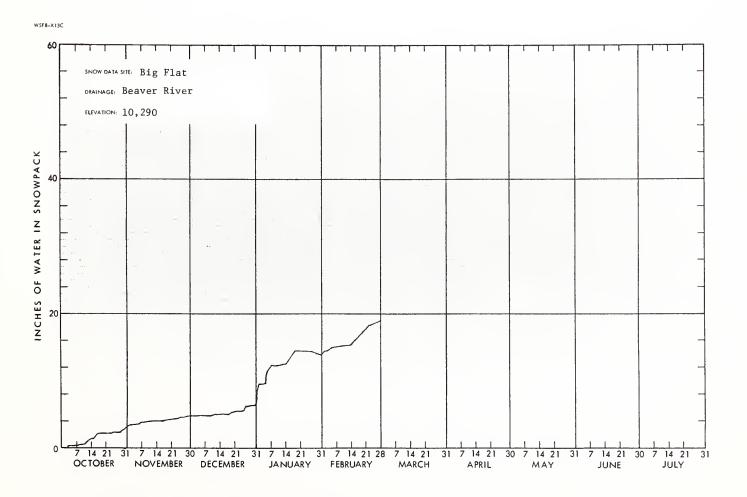


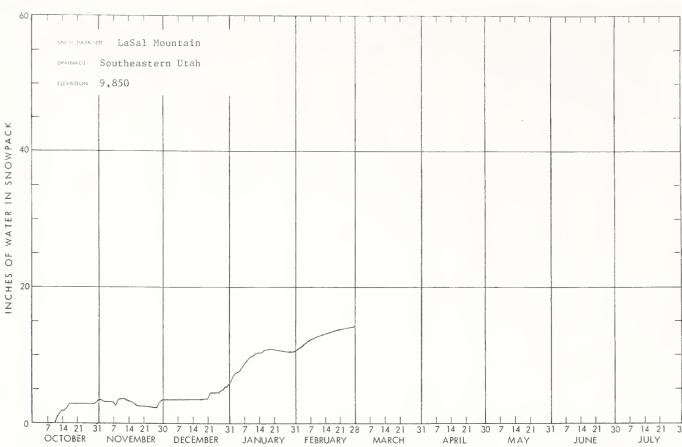


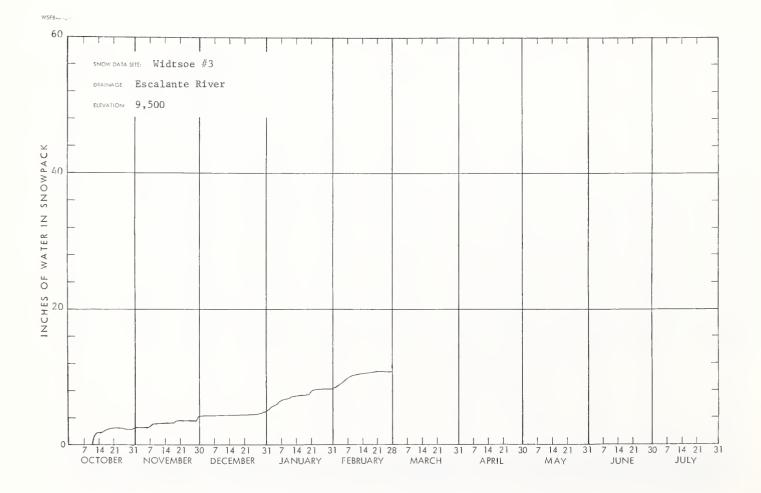


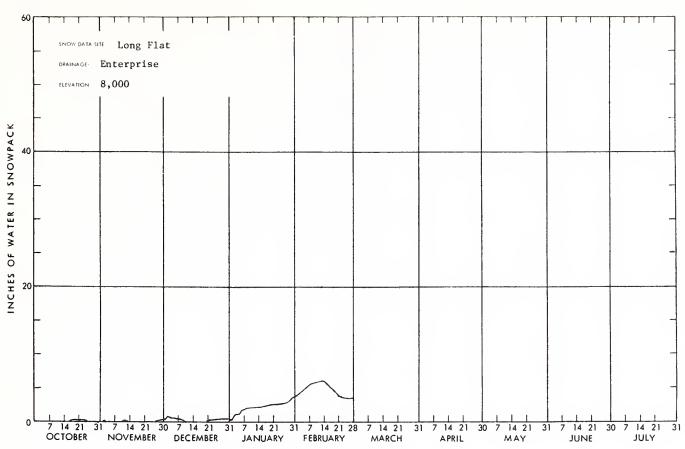




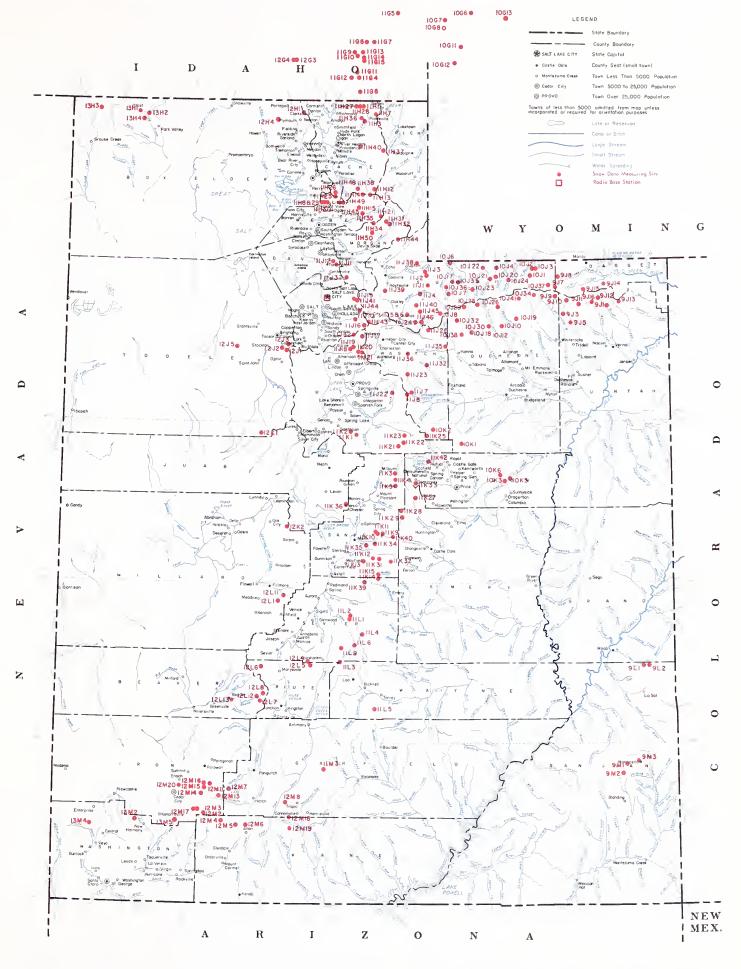














SNOW COURSES AND RELATED DATA MEASURING SITES

UTAH

1982



INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

	ELEV	inued) 8,730 10,680 8,650 10,400 10,100 9,400 9,400	10,840 10,600 10,350	8,000 8,000 11,000 9,100	11,000 10,200 10,500 10,100 10,100 10,100 8,400 8,400		8,200 8,100 7,970 8,600 9,100 7,400	9,400 8,700 9,800 7,200	9,200	8,900 9,200 9,200	9,400	8,700 8,850	9,000 8,600 8,800 7,050	6,500	9,250	9,200	
	RGE	(cont 21E 17E 16E 18E 18E 17E 13E 20E	W4 W0 W1	12W 6E 5W 10E	1288 74 E 18 8 4 5 7 8 8 1 1 1 8 8 8 1 1 1 1 1 1 1 1 1 1 1	;	14E 7E 13E 13E 8E 8E	4E 5E 5E	4 F	7E 6E 5E 4E	35 44	1E 2E	22E 22E 24E 24E 23E	% 1	WII %%	M6	ture.
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Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

- U. S. Department of Agriculture Soil Conservation Service Forest Service
- U. S. Department of Commerce NOAA, National Weather Service
- U. S. Department of Interior
 Bureau of Reclamation
 Geological Survey
 National Park Service

STATE AGENCIES

Utah State University
Utah State Department of Natural Resources
Division of Wildlife Resources
Division of Water Resources
Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Central Utah Conservancy District
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber Basin Conservancy District

PRIVATE AGENCIES

Kaiser Steel Corporation

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FEDERAL BLDG. -- ROOM 4420 125 SOUTH ST. SALT LAKE CITY, UTAH 84138

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